

CC the variation on the biological activity of CSF1R as well as on the
 CC binding affinity of candidate drugs targeting CSF1R. Antibodies are
 CC useful in a variety of diagnostic and prognostic formats and therapeutic
 CC methods. A transgenic animal is useful in studying expression of the
 CC CSF1R isogenes in vivo, for in vivo screening and testing of drugs
 CC targeted against CSF1R protein, and for testing the efficacy of
 CC therapeutic agents and compounds. Allele specific oligonucleotides (ASO)
 CC are useful as probes and primers, and for assaying a polymorphism in the
 CC target region. Without requiring any a priori knowledge of the phenotypic
 CC effect of any particular CSF1R or haplotype the invention provides a
 CC method for identifying lead compounds that are more likely to show
 CC efficacy in clinical trials. This sequence is an allele specific
 CC oligonucleotide probe used for detecting CSF1R gene polymorphisms,
 CC described in the method of the invention.

XX
 XX Sequence 15 BP; 3 A; 7 C; 1 G; 3 T; 1 other;
 SQ

Query Match 7.9%; Score 11; DB 1; Length 15;
 Best Local Similarity 84.6%; Pred. No. 3.1e+02;
 Matches 11; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1673 GGAACCTGGTGT 1685
 DB 14 GGAACCTGGTGT 2

RESULT 366
 ABK32117
 ID ABK32117 standard; DNA; 15 BP.
 XX
 AC ABK32117;
 DT 23-APR-2002 (first entry)
 XX
 DE Human colon cancer SAGE tag #218.
 XX
 KW Human; colon cancer; colorectal cancer; pancreatic cancer; SAGE tag;
 KW serial analysis of gene expression; diagnostic; prognostic; probe;
 KW cancer marker; ss.
 XX
 CS Homo sapiens.
 XX
 PN US6333152-B1.
 XX
 PD 25-DEC-2001.
 XX
 PF 20-MAY-1998; 98US-0081646.
 XX
 PR 20-MAY-1998; 98US-0081646.
 XX
 PA (UYJO) UNIV JOHNS HOPKINS.
 XX
 PI Vogelstein B, Kinzler KW, Zhang L, Zhou W;
 XX WPI; 2002-153821/20.
 XX
 KW Human; colon cancer; colorectal cancer; pancreatic cancer; SAGE tag;
 KW serial analysis of gene expression; diagnostic; prognostic; probe;
 KW cancer marker; ss.
 XX
 CS Homo sapiens.
 XX
 PN US6333152-B1.
 XX
 PD 25-DEC-2001.
 XX
 PF 20-MAY-1998; 98US-0081646.
 XX
 PR 20-MAY-1998; 98US-0081646.
 XX
 PA (UYJO) UNIV JOHNS HOPKINS.
 XX
 PI Vogelstein B, Kinzler KW, Zhang L, Zhou W;
 XX WPI; 2002-153821/20.
 XX
 KW New human nucleic acid containing specific SAGE tags, useful as
 KW diagnostic markers for cancer, also derived probes -
 XX
 PS Disclosure; Column 28; 161pp; English.
 XX
 CC The invention relates to an isolated, purified human nucleic acid (I)
 CC that has the same sequence as a mRNA found in humans and is a SAGE
 CC (serial analysis of gene expression) tag comprising a single stranded
 CC probe containing at least 10 consecutive nucleotides. SAGE tags, are
 CC diagnostic and prognostic markers of cancer, especially of the colon and
 CC pancreas. ABK31900-ABK32770 represent human colon and pancreatic cancer
 CC SAGE tags of the invention.

XX
 XX Sequence 15 BP; 4 A; 4 C; 5 G; 2 T; 0 other;
 SQ

Query Match 7.9%; Score 11; DB 1; Length 15;
 Best Local Similarity 100.0%; Pred. No. 3.1e+02;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1672 TGGAACCTGG 1682
 DB 3 TGGAACCTGG 13

RESULT 368
 AAQ74120/c
 ID AAQ74120 standard; DNA; 14 BP.
 XX
 AC AAQ74120;
 XX
 DT 02-FEB-1996 (first entry)
 XX
 DE Platelet derived growth factor (PDGF-A) antisense oligonucleotide.
 XX
 KW Platelet derived growth factor; PDGF-A; antisense oligonucleotide;
 KW breast; pancreatic; carcinoma; glioma; melanoma; rheumatoid;

Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1672 TGGAACCTGG 1682
 DB 3 TGGAACCTGG 13

RESULT 367
 ABK32754
 ID ABK32754 standard; DNA; 15 BP.
 XX
 AC ABK32754;
 DT 23-APR-2002 (first entry)
 XX
 DE Human colorectal and pancreatic cancer SAGE tag #121.
 XX
 KW Human; colon cancer; colorectal cancer; pancreatic cancer; SAGE tag;
 KW serial analysis of gene expression; diagnostic; prognostic; probe;
 KW cancer marker; ss.
 XX
 OS Homo sapiens.
 XX
 PN US6333152-B1.
 XX
 PD 25-DEC-2001.
 XX
 PF 20-MAY-1998; 98US-0081646.
 XX
 PR 20-MAY-1998; 98US-0081646.
 XX
 PA (UYJO) UNIV JOHNS HOPKINS.
 XX
 PI Vogelstein B, Kinzler KW, Zhang L, Zhou W;
 XX WPI; 2002-153821/20.
 XX
 KW New human nucleic acid containing specific SAGE tags, useful as
 KW diagnostic markers for cancer, also derived probes -
 XX
 PS Disclosure; Column 93; 161pp; English.
 XX
 CC The invention relates to an isolated, purified human nucleic acid (I)
 CC that has the same sequence as a mRNA found in humans and is a SAGE
 CC (serial analysis of gene expression) tag comprising a single stranded
 CC probe containing at least 10 consecutive nucleotides. SAGE tags, are
 CC diagnostic and prognostic markers of cancer, especially of the colon and
 CC pancreas. ABK31900-ABK32770 represent human colon and pancreatic cancer
 CC SAGE tags of the invention.

XX
 XX Sequence 15 BP; 4 A; 4 C; 5 G; 2 T; 0 other;
 SQ

Query Match 7.9%; Score 11; DB 1; Length 15;
 Best Local Similarity 100.0%; Pred. No. 3.1e+02;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1672 TGGAACCTGG 1682
 DB 3 TGGAACCTGG 13

RESULT 368
 AAQ74120/c
 ID AAQ74120 standard; DNA; 14 BP.
 XX
 AC AAQ74120;
 XX
 DT 02-FEB-1996 (first entry)
 XX
 DE Platelet derived growth factor (PDGF-A) antisense oligonucleotide.
 XX
 KW Platelet derived growth factor; PDGF-A; antisense oligonucleotide;
 KW breast; pancreatic; carcinoma; glioma; melanoma; rheumatoid;

XX WPI; 2002-489997/52.

XX Novel genetic variants of cholinergic receptor muscarinic 4 useful in

XX studying expression and function of protein, and for screening drugs to

XX treat diseases e.g. Alzheimer's disease and other neurological

XX disorders -

XX Claim 14; Page 13; 63pp; English.

XX The present invention relates to novel single nucleotide polymorphisms

XX (SNPs) in the human cholinergic receptor, muscarinic 4 (CHRM4) gene

XX located on chromosome 1p21-p13, and methods for haplotyping and/or

XX genotyping the CHRM4 gene. The methods of the invention make use of

XX allele-specific oligonucleotides (ASOs) as probes and primers and/or

XX primer-extension oligonucleotides for detecting the CHRM4 gene

XX polymorphisms. The polynucleotides and screened compounds are useful

XX for the treatment of diseases associated with CHRM4 activity, such as

XX Alzheimer's disease and other neurological disorders.

XX ABK92564-ABK92575 represent ASO primers for detecting human CHRM4 gene

XX polymorphisms.

XX Sequence 15 BP; 3 A; 5 C; 5 G; 1 T; 1 other;

XX

XX Query Match 7.9%; Score 11; DB 1; Length 15;

XX Best Local Similarity 84.6%; Pred. No. 3.4e+02;

XX Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

XX

XX QY 1658 ACCAGGCTCACAG 1670

XX | | | | | | | | | |

XX Db 3 ACCAGGGCCACRG 15

XX

XX RESULT 364

XX ABK92619

XX ID ABK92619 standard; DNA; 15 BP.

XX

XX AC ABK92619;

XX

XX DT 20-AUG-2002 (first entry)

XX

XX ASO primer #17 to detect human ADORA3 gene polymorphisms.

XX

XX Human; single nucleotide polymorphism; SNP; ADORA3; haplotyping;

XX chromosome 1p21-p13; adenosine A3 receptor; genotyping;

XX pathological heart condition; myocardial ischaemia;

XX chronic heart failure; allele-specific oligonucleotide; ASO;

XX primer; ss.

XX

XX OS Homo sapiens.

XX

XX PN WO200236610-A2.

XX

XX PD 10-MAY-2002.

XX

XX PF 31-OCT-2001; 2001WO-US45718.

XX

XX PR 31-OCT-2000; 2000US-244626P.

XX

XX PA (GENA-) GENAISSANCE PHARM INC.

XX

XX PI Gilson CR, Kazemi A, Koshy B, Monroe G;

XX

XX WPI; 2002-489998/52.

XX

XX Novel genetic variants of the adenosine A3 receptor, useful

XX therapeutically and in screening for drugs to treat diseases related to

XX ADORA3 activity e.g., myocardial ischaemia and chronic heart failure -

XX Claim 15; Page 14; 82pp; English.

XX

XX The present invention relates to novel single nucleotide polymorphisms

XX (SNPs) in the human adenosine A3 receptor (ADORA3) gene located on

CC chromosome 1p21-p13, and methods for haplotyping and/or genotyping

CC the ADORA3 gene. The methods of the invention make use of

CC allele-specific oligonucleotides (ASOs) as probes and primers and/or

CC primer-extension oligonucleotides for detecting the ADORA3 gene

CC polymorphisms. The polynucleotides and screened compounds are useful

CC for the treatment of diseases associated with ADORA3 activity, such as

CC pathophysiological conditions of the heart e.g. myocardial ischaemia

CC and chronic heart failure. ABK92603-ABK92628 represent ASO primers for

CC detecting human ADORA3 gene polymorphisms.

XX

XX Sequence 15 BP; 2 A; 6 C; 4 G; 2 T; 1 other;

XX

XX Query Match 7.9%; Score 11; DB 1; Length 15;

XX Best Local Similarity 100.0%; Pred. No. 3.1e+02;

XX Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

XX

XX QY 1759 AGGCCCACTGG 1769

XX | | | | | | | | | |

XX Db 2 AGGCCCACTGG 12

XX

XX RESULT 365

XX AAS98658/c

XX ID AAS98658 standard; DNA; 15 BP.

XX

XX AC AAS98658;

XX

XX DT 26-MAR-2002 (first entry)

XX

XX DE Colony stimulating factor 1 receptor (CSF1R) oligonucleotide #24.

XX

XX KW Colony stimulating factor 1 receptor; CSF1R; polymorphic variant;

XX cytostatic; gene therapy; malignant histiocytosis; isogene;

XX myeloid malignancy; inflammatory disorder; transgenic animal;

XX haplotype; genotype; human; allele specific oligonucleotide; ASO;

XX probe; ss.

XX

XX OS Homo sapiens.

XX

XX PN WO200179225-A2.

XX

XX PD 25-OCT-2001.

XX

XX PF 12-APR-2001; 2001WO-US12044.

XX

XX PR 12-APR-2000; 2000US-196411P.

XX

XX PA (GENA-) GENAISSANCE PHARM INC.

XX

XX PI Chew A, Choi JY, Koshy B;

XX

XX WPI; 2002-075058/10.

XX

XX Novel polymorphic variants of colony stimulating factor 1 receptor

XX useful in studying expression and function of the protein, useful for

XX screening candidate drugs to treat diseases e.g. inflammatory disorders

XX -

XX Claim 15; Page 15; 164pp; English.

XX

XX The invention describes a novel isolated polynucleotide (I) comprising a

XX sequence which is a polymorphic variant (PV) of a reference sequence for

XX colony stimulating factor 1 receptor (CSF1R) gene, found on the

XX polypeptide are useful for improving the discovery and development of

XX drugs for treating diseases associated with CSF1R activity, e.g.,

XX malignant histiocytosis, myeloid malignancies, and inflammatory disorders

XX and the haplotypes can be used to validate CSF1R as a candidate target

XX for treating a specific condition or disease predicted to be associated

XX with CSF1R activity. Genotyping the CSF1R gene of an individual can also

XX be used in developing diagnostic tests and therapeutic treatments. (2) is

XX useful in studying the expression and function of CSF1R, and in

XX expressing CSF1R protein for use in screening for candidate drugs to

XX treat diseases related to CSF1R activity and in studying the effect of

XX OS Homo sapiens.
 XX PN WO2000078341-A1.
 XX PD 28-DEC-2000.
 XX PF 21-JUN-2000; 2000WO-AU00693.
 XX PR 21-JUN-1999; 99US-0140345.
 XX PA (MURD-) MURDOCH CHILDRENS RES INST.
 XX PI Wright CJ, Werther GA, Edmondson SR;
 XX WPI; 2001-041421/05.
 XX Ameliorating the effects of a disorder, e.g. psoriasis, by
 PT administering UV (ultra-violet) treatment (optional) and an antisense
 PT nucleic acid that inhibits or reduces growth factor mediated cell
 PT proliferation and/or inflammation -
 XX Example 8; Page 71; 201pp; English.
 XX The present invention relates to a method for ameliorating the effects
 CC of skin disorders. The method comprises contacting the skin with an
 CC antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
 CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
 CC inhibiting or reducing growth factor mediated cell proliferation,
 CC inflammation and/or other disorders. The present sequence is an
 CC oligonucleotide which can be used to design the antisense
 CC oligonucleotides of the present invention (see AAF45151 and
 CC AAF45153-F45161). The method is useful for ameliorating the effects of
 CC psoriasis, ichthyosis, pityriasis, ruha, pilaris, seborrheoa, keloids,
 CC keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the
 CC skin, a hyperneovascular condition such as a neovascular condition of the
 CC retina, brain or skin, growth factor-mediated malignancies, other
 CC sclerotic disease, kidney disease, hyperproliferation of the inside of
 CC blood vessels or any other hyperplasia.
 XX Sequence 15 BP; 5 A; 3 C; 5 G; 2 T; 0 other;
 SQ

Query Match 7.9%; Score 11; DB 1; Length 15;
 Best Local Similarity 100.0%; Pred. No. 3.1e+02;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1667 ACAGCTGGAC 1677
 DB 1 ACAGCTGGAC 11
 RESULT 362
 AAL39485/C
 ID AAL39485 standard; DNA; 15 BP.
 XX AC AAL39485;
 XX 05-SEP-2002 (first entry)
 XX CCBP2 detecting ASO probe SEQ ID No 12.
 XX Chemokine binding protein 2; CCBP2; CCBP2 protein isoform; gene therapy;
 XX polymorphic gene variant; single nucleotide polymorphism; human; probe;
 XX ss.
 XX Homo sapiens.
 XX WO200232926-A2.
 XX 25-APR-2002.
 XX 12-OCT-2001; 2001WO-US42685.
 XX

PR 12-OCT-2000; 2000US-239638P.
 XX (GENA-) GENAISSANCE PHARM INC.
 XX Armstrong B, Kazemi A, Koshy B;
 XX WPI; 2002-435524/46.
 XX New genetic variants having polymorphisms in the chemokine binding
 PT protein 2 (CCBP2) gene, useful for studying CCBP2 functions, and for
 PT treating disorders affected by expression or function of the CCBP2
 PT isogene -
 XX Claim 14; Page 13; 94pp; English.
 XX The invention relates to an isolated polynucleotide comprising genes and
 CC haplotypes of the chemokine binding protein 2 (CCBP2) gene. Polymorphic
 CC variants of the CCBP2 gene are useful in studying the expression and
 CC function of CCBP2, and in expressing CCBP2 proteins for use in screening
 CC candidate drugs for treating diseases associated with CCBP2 activity.
 CC Polynucleotides comprising a polymorphic gene variant or fragment may be
 CC used for therapeutic purposes, where a patient could benefit from
 CC expression or increased expression of a particular CCBP2 protein isoform,
 CC or an expression vector encoding the isoform may be administered to the
 CC patient. Haplotype information is useful in improving the efficiency and
 CC output of several steps in drug discovery and development process, and
 CC including target validation, identifying lead compounds, and early phase
 CC clinical trials. The polynucleotides of the invention can be used to
 CC treat disorders related to the CCBP2 gene by gene therapy. This
 CC polynucleotide sequence represents a preferred ASO probe for detecting
 CC CCBP2 gene polymorphisms relating to the invention.
 XX Sequence 15 BP; 0 A; 5 C; 5 G; 4 T; 1 other;
 SQ

Query Match 7.9%; Score 11; DB 1; Length 15;
 Best Local Similarity 84.6%; Pred. No. 3.1e+02;
 Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
 QY 1659 CCAGGCTCACGC 1671
 DB 13 CCAGGSACACGC 1
 RESULT 363
 ABK92567
 ID ABK92567 standard; DNA; 15 BP.
 XX AC ABK92567;
 XX 20-AUG-2002 (first entry)
 XX ASO primer #4 to detect human CHRM4 gene polymorphisms.
 XX Human; single nucleotide polymorphism; SNP; CHRM4; haplotyping;
 XX chromosome 11p12-p11.2; cholinergic receptor muscarinic 4;
 XX genotyping; Alzheimer's disease; neurological disorder;
 XX allele-specific oligonucleotide; ASO; primer; ss.
 XX Homo sapiens.
 XX WO200236609-A2.
 XX 10-MAY-2002.
 XX 31-OCT-2001; 2001WO-US45709.
 XX 31-OCT-2000; 2000US-244627P.
 XX (GENA-) GENAISSANCE PHARM INC.
 XX (PETE/) PETERSON N.
 XX (ROUND/) ROUNDS E.
 XX Denton RR, Duda A, Gilson CR, Kazemi A, Nardabalar K, Tirrell C;
 XX

KW Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
 KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
 KW skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; ptyriasis;
 KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
 KW growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba;
 KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
 KW hyperneovascular condition; hyperplasia; kidney disease;
 KW neovascular condition of the retina; ss.
 XX Homo sapiens.
 OS
 PN WO200078341-A1.
 XX
 PD 28-DEC-2000.
 XX
 PF 21-JUN-2000; 2000WO-AU00693.
 XX
 PR 21-JUN-1999; 99US-0140345.
 XX
 PA (MURD-) MURDOCH CHILDRENS RES INST.
 XX
 PI Wraight CJ, Werther GA, Edmondson SR;
 XX
 DR WPI; 2001-041421/05.
 XX
 PT Ameliorating the effects of a disorder, e.g. psoriasis, by
 PT administering UV (ultra-violet) treatment (optional) and an antisense
 PT nucleic acid that inhibits or reduces growth factor mediated cell
 PT proliferation and/or inflammation -
 XX
 PS Example 8; Page 71; 201pp; English.
 XX
 CC The present invention relates to a method for ameliorating the effects
 CC of skin disorders. The method comprises contacting the skin with an
 CC antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
 CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
 CC inhibiting or reducing growth factor mediated cell proliferation,
 CC inflammation and/or other disorders. The present sequence is an
 CC oligonucleotide which can be used to design the antisense
 CC oligonucleotides of the present invention (see AAF45151 and
 CC AAF45153-F45161). The method is useful for ameliorating the effects of
 CC psoriasis, ichthyosis, ptyriasis, ruba, pilaris, serborrhoea, keloids,
 CC keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the
 CC skin, a hyperneovascular condition such as a neovascular condition of the
 CC retina, brain or skin, growth factor-mediated malignancies, other
 CC sclerotic disease, kidney disease, hyperproliferation of the inside of
 CC blood vessels or any other hyperplasia.
 XX
 SQ Sequence 15 BP; 6 A; 4 C; 3 G; 2 T; 0 other;
 Query Match 7.9%; Score 11; DB 1; Length 15;
 Best Local Similarity 100.0%; Pred. No. 3.1e+02;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1667 ACAGCTGGGAC 1677
 Db 3 ACAGCTGGGAC 13
 RESULT 360
 AAF50724
 ID AAF50724 standard; DNA; 15 BP.
 XX
 AC AAF50724;
 XX
 DT 30-MAR-2001 (first entry)
 XX
 DE IGF-I oligonucleotide #1684.
 XX
 KW Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
 KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
 KW skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; ptyriasis;
 KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
 KW growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba;
 KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
 KW hyperneovascular condition; hyperplasia; kidney disease;
 KW neovascular condition of the retina; ss.

KW growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba;
 KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
 KW hyperneovascular condition; hyperplasia; kidney disease;
 KW neovascular condition of the retina; ss.
 XX Homo sapiens.
 OS
 PN WO200078341-A1.
 XX
 PD 28-DEC-2000.
 XX
 PF 21-JUN-2000; 2000WO-AU00693.
 XX
 PR 21-JUN-1999; 99US-0140345.
 XX
 PA (MURD-) MURDOCH CHILDRENS RES INST.
 XX
 PI Wraight CJ, Werther GA, Edmondson SR;
 XX
 DR WPI; 2001-041421/05.
 XX
 PT Ameliorating the effects of a disorder, e.g. psoriasis, by
 PT administering UV (ultra-violet) treatment (optional) and an antisense
 PT nucleic acid that inhibits or reduces growth factor mediated cell
 PT proliferation and/or inflammation -
 XX
 PS Example 8; Page 71; 201pp; English.
 XX
 CC The present invention relates to a method for ameliorating the effects
 CC of skin disorders. The method comprises contacting the skin with an
 CC antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
 CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
 CC inhibiting or reducing growth factor mediated cell proliferation,
 CC inflammation and/or other disorders. The present sequence is an
 CC oligonucleotide which can be used to design the antisense
 CC oligonucleotides of the present invention (see AAF45151 and
 CC AAF45153-F45161). The method is useful for ameliorating the effects of
 CC psoriasis, ichthyosis, ptyriasis, ruba, pilaris, serborrhoea, keloids,
 CC keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the
 CC skin, a hyperneovascular condition such as a neovascular condition of the
 CC retina, brain or skin, growth factor-mediated malignancies, other
 CC sclerotic disease, kidney disease, hyperproliferation of the inside of
 CC blood vessels or any other hyperplasia.
 XX
 SQ Sequence 15 BP; 6 A; 3 C; 4 G; 2 T; 0 other;
 Query Match 7.9%; Score 11; DB 1; Length 15;
 Best Local Similarity 100.0%; Pred. No. 3.1e+02;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1667 ACAGCTGGGAC 1677
 Db 2 ACAGCTGGGAC 12
 RESULT 361
 AAF50725
 ID AAF50725 standard; DNA; 15 BP.
 XX
 AC AAF50725;
 XX
 DT 30-MAR-2001 (first entry)
 XX
 DE IGF-I oligonucleotide #1685.
 XX
 KW Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
 KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
 KW skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; ptyriasis;
 KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
 KW growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba;
 KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
 KW hyperneovascular condition; hyperplasia; kidney disease;
 KW neovascular condition of the retina; ss.

ID AAF50721 standard; DNA; 15 BP.
 XX AC AAF50721;
 XX
 DT 30-MAR-2001 (first entry)
 DE XX
 DE IGF-I oligonucleotide #1681.
 XX
 KW Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
 KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
 KW skin disorder; insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;
 KW IGF binding protein; IGFBP-2; IGFBP-3; inflammation; psoriasis; pilaris;
 KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;
 KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
 KW hyperneovascular condition; hyperplasia; kidney disease;
 KW neovascular condition of the retina; ss.
 XX
 OS Homo sapiens.
 XX WO200078341-A1.
 XX
 PD 28-DEC-2000.
 XX
 PF 21-JUN-2000; 2000WO-AU00693.
 XX
 PR 21-JUN-1999; 99US-0140345.
 XX
 XX (MURD-) MURDOCH CHILDRENS RES INST.
 PA Wright CJ, Werther GA, Edmondson SR;
 PI WPI; 2001-041421/05.
 DR
 XX Ameliorating the effects of a disorder, e.g. psoriasis, by
 PT administering UV (ultra-violet) treatment (optional) and an antisense
 PT nucleic acid that inhibits or reduces growth factor mediated cell
 PT proliferation and/or inflammation -
 XX
 PS Example 8; Page 71; 201pp; English.
 XX
 CC The present invention relates to a method for ameliorating the effects
 CC of skin disorders. The method comprises contacting the skin with an
 CC antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
 CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
 CC inhibiting or reducing growth factor mediated cell proliferation,
 CC inflammation and/or other disorders. The present sequence is an
 CC oligonucleotide which can be used to design the antisense
 CC oligonucleotides of the present invention (see AAF45151 and
 CC AAF45153-F45161). The method is useful for ameliorating the effects of
 CC psoriasis, ichthyosis, pityriasis, ruba, pilaris, serborrhea, keloids,
 CC keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the
 CC skin, a hyperneovascular condition such as a neovascular condition of the
 CC retina, brain or skin, growth factor-mediated malignancies, other
 CC sclerotic disease, kidney disease, hyperproliferation of the inside of
 CC blood vessels or any other hyperplasia.
 XX
 SQ Sequence 15 BP; 5 A; 5 C; 3 G; 2 T; 0 other;
 Query Match 7.9%; Score 11; DB 1; Length 15;
 Best Local Similarity 100.0%; Pred.No. 3.1e+02;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1667 ACAGCTGGAAC 1677
 |||||
 5 ACAGCTGGAAC 15
 Db
 RESULT 358
 AAF50722
 ID AAF50722 standard; DNA; 15 BP.
 XX AC AAF50722;
 XX
 DT 30-MAR-2001 (first entry)
 DE XX
 DE IGF-I oligonucleotide #1683.
 XX
 KW Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
 KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
 KW skin disorder; insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;
 KW IGF binding protein; IGFBP-2; IGFBP-3; inflammation; psoriasis; pilaris;
 KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;
 KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
 KW hyperneovascular condition; hyperplasia; kidney disease;
 KW neovascular condition of the retina; ss.
 XX
 OS Homo sapiens.
 XX WO200078341-A1.
 XX
 PD 28-DEC-2000.
 XX
 PF 21-JUN-2000; 2000WO-AU00693.
 XX
 PR 21-JUN-1999; 99US-0140345.
 XX
 XX (MURD-) MURDOCH CHILDRENS RES INST.
 PA Wright CJ, Werther GA, Edmondson SR;
 PI WPI; 2001-041421/05.
 DR
 XX Ameliorating the effects of a disorder, e.g. psoriasis, by
 PT administering UV (ultra-violet) treatment (optional) and an antisense
 PT nucleic acid that inhibits or reduces growth factor mediated cell
 PT proliferation and/or inflammation -
 XX
 PS Example 8; Page 71; 201pp; English.
 XX
 CC The present invention relates to a method for ameliorating the effects
 CC of skin disorders. The method comprises contacting the skin with an
 CC antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
 CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
 CC inhibiting or reducing growth factor mediated cell proliferation,
 CC inflammation and/or other disorders. The present sequence is an
 CC oligonucleotide which can be used to design the antisense
 CC oligonucleotides of the present invention (see AAF45151 and
 CC AAF45153-F45161). The method is useful for ameliorating the effects of
 CC psoriasis, ichthyosis, pityriasis, ruba, pilaris, serborrhea, keloids,
 CC keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the
 CC skin, a hyperneovascular condition such as a neovascular condition of the
 CC retina, brain or skin, growth factor-mediated malignancies, other
 CC sclerotic disease, kidney disease, hyperproliferation of the inside of
 CC blood vessels or any other hyperplasia.
 XX
 SQ Sequence 15 BP; 5 A; 5 C; 3 G; 2 T; 0 other;
 Query Match 7.9%; Score 11; DB 1; Length 15;
 Best Local Similarity 100.0%; Pred.No. 3.1e+02;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1667 ACAGCTGGAAC 1677
 |||||
 5 ACAGCTGGAAC 15
 Db
 RESULT 358
 AAF50722
 ID AAF50722 standard; DNA; 15 BP.
 XX AC AAF50722;
 XX
 DT 30-MAR-2001 (first entry)
 DE XX
 DE IGF-I oligonucleotide #1683.
 XX

DT 30-MAR-2001 (first entry)
 XX IGF-I oligonucleotide #1682.
 XX
 KW Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
 KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
 KW skin disorder; insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;
 KW IGF binding protein; IGFBP-2; IGFBP-3; inflammation; psoriasis; pilaris;
 KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;
 KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
 KW hyperneovascular condition; hyperplasia; kidney disease;
 KW neovascular condition of the retina; ss.
 XX
 OS Homo sapiens.
 XX WO200078341-A1.
 XX
 PD 28-DEC-2000.
 XX
 PF 21-JUN-2000; 2000WO-AU00693.
 XX
 PR 21-JUN-1999; 99US-0140345.
 XX
 XX (MURD-) MURDOCH CHILDRENS RES INST.
 PA Wright CJ, Werther GA, Edmondson SR;
 PI WPI; 2001-041421/05.
 DR
 XX Ameliorating the effects of a disorder, e.g. psoriasis, by
 PT administering UV (ultra-violet) treatment (optional) and an antisense
 PT nucleic acid that inhibits or reduces growth factor mediated cell
 PT proliferation and/or inflammation -
 XX
 PS Example 8; Page 71; 201pp; English.
 XX
 CC The present invention relates to a method for ameliorating the effects
 CC of skin disorders. The method comprises contacting the skin with an
 CC antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
 CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
 CC inhibiting or reducing growth factor mediated cell proliferation,
 CC inflammation and/or other disorders. The present sequence is an
 CC oligonucleotide which can be used to design the antisense
 CC oligonucleotides of the present invention (see AAF45151 and
 CC AAF45153-F45161). The method is useful for ameliorating the effects of
 CC psoriasis, ichthyosis, pityriasis, ruba, pilaris, serborrhea, keloids,
 CC keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the
 CC skin, a hyperneovascular condition such as a neovascular condition of the
 CC retina, brain or skin, growth factor-mediated malignancies, other
 CC sclerotic disease, kidney disease, hyperproliferation of the inside of
 CC blood vessels or any other hyperplasia.
 XX
 SQ Sequence 15 BP; 6 A; 5 C; 3 G; 1 T; 0 other;
 Query Match 7.9%; Score 11; DB 1; Length 15;
 Best Local Similarity 100.0%; Pred.No. 3.1e+02;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1667 ACAGCTGGAAC 1677
 |||||
 4 ACAGCTGGAAC 14
 Db
 RESULT 359
 AAF50723
 ID AAF50723 standard; DNA; 15 BP.
 XX AC AAF50723;
 XX
 DT 30-MAR-2001 (first entry)
 DE XX
 DE IGF-I oligonucleotide #1683.
 XX

CC AAX30947-31815 represent tag sequences of transcripts that are
 CC differentially expressed in colorectal cancer, in pancreatic
 CC cancer, or in both. The tag sequences can be used to identify
 CC genes by matching the tag to a gen data base member, or by using
 CC the tag sequences as probes to isolate unidentified genes from
 CC cDNA libraries. The tag sequences can also be used in a method
 CC for diagnosing colon or pancreatic cancer in a sample suspected
 CC of being neoplastic. The method comprises comparing the level of
 CC at least one transcript in a first sample of a tissue to a second
 CC sample, where the first sample is a colonic tissue suspected of
 CC being neoplastic and the second sample is a normal human colonic
 CC tissue. The transcript is identified by a tag selected from
 CC AAX30947-31815. The methods of the invention can be used in the
 CC diagnosis, prognosis and treatment of cancer.

XX Sequence 15 BP; 4 A; 4 C; 5 G; 2 T; 0 other;
 SQ Query Match 7.9%; Score 11; DB 1; Length 15;
 Best Local Similarity 100.0%; Pred. No. 3.1e+02;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1672 TGGAACCCCTGG 1682
 Db 3 TGGAACCCCTGG 13

RESULT 355

AAX311164
 ID AAX311164 standard; DNA; 15 BP.

XX AC

XX AC

XX AC

DT 21-MAY-1999 (first entry)

XX Tag sequence of a transcript increased in colorectal cancer.

XX Tag sequence; colorectal cancer; pancreatic cancer; colon cancer;
 KW diagnosis; prognosis; treatment; ss.

XX Homo sapiens.

OS WO9853319-A2.

XX 26-NOV-1998.

XX 20-MAY-1998; 98WO-US10277.

XX 21-MAY-1997; 97US-0047352.

XX (UJJO) UNIV JOHNS HOPKINS.

XX Kinzler KW, Vogelstein B;

XX WPI; 1999-070161/06.

XX Use of isolated gene transcripts - useful for developing products
 PT for the diagnosis, prognosis and treatment of cancers, particularly
 PT colon and pancreatic cancer

XX Claim 2; Page 33; 120pp; English.

XX AAX30947-31815 represent tag sequences of transcripts that are
 CC differentially expressed in colorectal cancer, in pancreatic
 CC cancer, or in both. The tag sequences can be used to identify
 CC genes by matching the tag to a gen data base member, or by using
 CC the tag sequences as probes to isolate unidentified genes from
 CC cDNA libraries. The tag sequences can also be used in a method
 CC for diagnosing colon or pancreatic cancer in a sample suspected
 CC of being neoplastic. The method comprises comparing the level of
 CC at least one transcript in a first sample of a tissue to a second
 CC sample, where the first sample is a colonic tissue suspected of
 CC being neoplastic and the second sample is a normal human colonic
 CC tissue. The transcript is identified by a tag selected from

CC AAX30947-31815. The methods of the invention can be used in the
 CC diagnosis, prognosis and treatment of cancer.

XX Sequence 15 BP; 4 A; 4 C; 5 G; 2 T; 0 other;
 SQ Query Match 7.9%; Score 11; DB 1; Length 15;

Best Local Similarity 100.0%; Pred. No. 3.1e+02;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1672 TGGAACCCCTGG 1682

Db 3 TGGAACCCCTGG 13

RESULT 356

AAI67293/C
 ID AAI67293 standard; DNA; 15 BP.

XX AC

XX AC

DT 11-FEB-2002 (first entry)

XX Human FKBP8 allele-specific oligonucleotide (ASO) probe.

XX FK506-binding protein 8; FKBP8; haplotyping; polymorphism; cancer; ss;
 KW immunosuppression; human; allele-specific oligonucleotide; ASO; probe.

XX Homo sapiens.

XX WO200172965-A2.

XX 04-OCT-2001.

XX 26-MAR-2001; 2001WO-US09718.

XX 24-MAR-2000; 2000US-192125P.

XX (GENA-) GENAISSANCE PHARM INC.

PI Anastasio AE, Bentivegna SC, Choi JY, Kiem SE, Koshy B;

PI Stephens JC;

XX WPI; 2001-626261/72.

XX New haplotypes of the FK506-binding protein 8 gene, useful for
 PT genotyping that gene in individual and to design new therapy for
 PT associated disease such as immunosuppression and cancer

XX Claim 15; Page 13; 98pp; English.

XX The invention relates to haplotyping the FK506-binding protein 8 (38kD)
 CC (FKBP8) gene in an individual. The method involves determining the
 CC identity of the nucleotide pair at one or more polymorphic sites selected
 CC from PI to P26 (described in the specification). The invention is useful
 CC to improve the efficiency and reliability of several steps in the
 CC discovery and development of drugs for treating diseases associated with
 CC FKBP8 activity, for example immunosuppression and cancer. Sequences
 CC AAI67274-299 represent allele-specific oligonucleotide (ASO) probes for
 CC detecting FKBP8 gene polymorphisms.

XX Sequence 15 BP; 2 A; 7 C; 4 G; 1 T; 1 other;

XX Query Match 7.9%; Score 11; DB 1; Length 15;

Best Local Similarity 84.6%; Pred. No. 3.1e+02;

Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1673 GGAACCCCTGGTGT 1685

Db 15 GGCACCCYGGTGT 3

RESULT 357

AAFS0721

XX Selective base pair; steric hindrance; static repulsion; ss.

XX Synthetic.

XX WO200105801-A1.

XX 25-JAN-2001.

XX 14-JUL-2000; 2000WO-JP04720.

XX 15-JUL-1999; 99JP-0201450.

XX 02-MAY-2000; 2000JP-0133519.

XX (NISC-) JAPAN SCI & TECHNOLOGY CORP.

XX Hirao I, Ishikawa M, Fujihara T, Yokoyama S;

XX WPI; 2001-147320/15.

XX Non-natural nucleic acid base pair recognised by polymerases for
PT production of artificial genes for treatment of genetic disorders -

XX Disclosure; Page 14; 64pp; Japanese.

XX This invention relates to a non-natural selective base pair for nucleic
CC acids produced by introducing to a nucleic acid base a group imparting
CC steric hindrance to pairing with the counter-base, static repulsion and
CC a stacking effect. The non-natural selective base pair can be used in
CC the production of non-natural genes and their use in the production of
CC proteins containing non-natural amino acids. The production of nucleic
CC acids for treatment of genetic disorders. Oligonucleotides
CC AAF29385 - AAF29398 represent template and primer sequences used in an
CC example illustrating the invention.

XX Sequence 14 BP; 5 A; 1 C; 6 G; 2 T; 0 other;

XX Query Match 7.9%; Score 11; DB 1; Length 14;

XX Best Local Similarity 100.0%; Pred. No. 2.8e+02;

XX Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

XX 1743 CTCCTCCCTAT 1753

XX 13 CTCCTCCCTAT 3

XX RESULT 353

XX ID AAV31919 standard; DNA; 15 BP.

XX AC AAV31919;

XX 21-AUG-1998 (first entry)

XX Peptide nucleic acid probe 62.

XX Peptide nucleic acid; PNA; probe; hybridisation; mycobacteria;

XX ribosomal nucleic acid; rRNA; drug-resistant strain; mutation; ss.

XX Synthetic.

XX Mycobacterium sp.

XX Key Location/Qualifiers

XX modified_base 1..15

XX /tag= a

XX /note= "This sequence contains a polyamide backbone
FT instead of a deoxyribose backbone"

XX WO9815648-A1.

XX 16-APR-1998.

XX 03-OCT-1997; 97WO-DK00425.

PR 05-MAY-1997; 97DK-0000512.

PR 04-OCT-1996; 96DK-0001036.

XX 18-OCT-1996; 96DK-0001156.

XX (DAKO-) DAKO AS.

XX Lund K, Mollerup TA, Stender H;

XX WPI; 1998-240831/21.

XX Peptide nucleic acid probes for detection of ribosomal nucleic acid
PT of mycobacteria - allow differentiation between species of
PT tuberculosis complex and others and can penetrate cell membranes
PT without pretreatment

XX Claim 22; Page 66; 106pp; English.

XX This is the nucleotide sequence of the peptide nucleic acid (PNA)
CC probe used in the method of the invention, to detect ribosomal
CC nucleic acid of mycobacteria. The probes are used, in situ or in
CC vitro, for detection of the Mycobacterium tuberculosis complex (MTC),
CC specifically M. tuberculosis, and especially in sputum samples, but
CC also in other body fluids, biopsy specimens, foods, soil, air and water.
CC Particularly, they are used to diagnose, stage or monitor infection,
CC or for identification of drug-resistant strains (which generally have
CC mutations in rRNA).

XX Sequence 15 BP; 2 A; 6 C; 5 G; 2 T; 0 other;

XX Query Match 7.9%; Score 11; DB 1; Length 15;

XX Best Local Similarity 100.0%; Pred. No. 3.1e+02;

XX Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

XX 1759 AGGCCCACTGG 1769

XX 4 AGGCCCACTGG 14

XX RESULT 354

XX ID AAX31800 standard; DNA; 15 BP.

XX AC AAX31800;

XX 21-MAY-1999 (first entry)

XX Transcript tag sequence increased in pancreatic and colorectal cancer.

XX Tag sequence; colorectal cancer; pancreatic cancer; colon cancer;

XX diagnosis; prognosis; treatment; ss.

XX Homo sapiens.

XX WO9853319-A2.

XX 26-NOV-1998.

XX 20-MAY-1998; 98WO-US10277.

XX 21-MAY-1997; 97US-0047352.

XX (UWJO) UNIV JOHNS HOPKINS.

XX Kinzler KW, Vogelstein B;

XX WPI; 1999-070161/06.

XX Use of isolated gene transcripts - useful for developing products
PT for the diagnosis, prognosis and treatment of cancers, particularly
PT colon and pancreatic cancer

XX Disclosure; Page 79; 120pp; English.

AB100010-ABI82073 represent the oligomers described in the invention.
NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at ftp.wipo.int/pub/published_pct_sequences.

Sequence 13 BP; 3 A; 6 C; 0 G; 3 T; 1 other;

Query Match 7.9%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 2.5e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1748 CCCATCCTAA 1758
2 CCCATCCTAA 12

RESULT 350
ABH35638
ID ABH35638 standard; DNA; 13 BP.
XX
AC ABH35638;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 235615 for detecting SNP TSC0057525.
XX
KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB00713.
XX
PR 07-APR-2000; 2000DE-1019173.
XX
PA (EPIG-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
WPI; 2001-657177/75.
XX
Set of oligonucleotides, useful for diagnosis and cell typing, is designed to detect single nucleotide polymorphisms and cytosine methylation status -
XX
Claim 1; SEQ ID 235615; 29pp + Sequence Listing; German.
XX
This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation.
XX
ABC00010-ABC9989, ABF00010-ABF9989, ABH00010-ABH9989 and AB100010-ABI82073 represent the oligomers described in the invention.
XX
NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at ftp.wipo.int/pub/published_pct_sequences.

Sequence 13 BP; 3 A; 0 C; 6 G; 3 T; 1 other;

Query Match 7.9%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 2.5e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1707 TGGGTTAGGAG 1717
1111111111

QY

Db 1 TGGGTTAGGAG 11

RESULT 351
ABH35639/C
ID ABH35639 standard; DNA; 13 BP.
XX
AC ABH35639;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 235616 for detecting SNP TSC0057525.
XX
KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB00713.
XX
PR 07-APR-2000; 2000DE-1019173.
XX
PA (EPIG-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
WPI; 2001-657177/75.
XX
Set of oligonucleotides, useful for diagnosis and cell typing, is designed to detect single nucleotide polymorphisms and cytosine methylation status -
XX
Claim 1; SEQ ID 235616; 29pp + Sequence Listing; German.
XX
This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation.
XX
ABC00010-ABC9989, ABF00010-ABF9989, ABH00010-ABH9989 and AB100010-ABI82073 represent the oligomers described in the invention.
XX
NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at ftp.wipo.int/pub/published_pct_sequences.

Sequence 13 BP; 3 A; 6 C; 0 G; 3 T; 1 other;

Query Match 7.9%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 2.5e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1707 TGGGTTAGGAG 1717
1111111111

QY


```

Best Local Similarity 84.6%; Pred. No. 2.5e+02;
Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1700 TGGAGCTTGGGTT 1712
   ||||| |||||
   1 TGGAGTAGGGTY 13

DB

RESULT 345
ABH22017/C
ID ABH22017 standard; DNA; 13 BP.
XX
XX AC ABH22017;
XX
XX
DT 22-FEB-2002 (first entry)
XX
XX Oligonucleotide SEQ ID NO 221994 for detecting SNP TSC0054021.
DE
DE SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
OS
XX WO200177384-A2.
PN
XX 18-OCT-2001.
PD
XX
XX 06-APR-2001; 2001WO-IB00713.
PF
XX 07-APR-2000; 2000DE-1019173.
PR
XX (EPIG-) EPIGENOMICS AG.
PA
XX Olek A, Piepenbrock C, Berlin K;
PI
XX WPI; 2001-657177/75.
DR
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
PT
XX Claim 1; SEQ ID 221994; 29pp + Sequence Listing; German.
PS
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP).
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX AB000010-AB099989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX AB100010-AB182073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 13 BP; 3 A; 6 C; 0 G; 3 T; 1 other;

Query Match 7.9%; Score 11; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 2.5e+02;
Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1700 TGGAGCTTGGGTT 1712
   ||||| |||||
   13 TGGAGTAGGGTY 1

DB

RESULT 346
ABH30528
ID ABH30528 standard; DNA; 13 BP.
XX
XX AC ABH30528;
XX
XX
DT 22-FEB-2002 (first entry)
XX
XX Oligonucleotide SEQ ID NO 230506 for detecting SNP TSC0056222.
DE
DE SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
OS
XX WO200177384-A2.
PN
XX 18-OCT-2001.
PD
XX
XX 06-APR-2001; 2001WO-IB00713.
PF
XX 07-APR-2000; 2000DE-1019173.
PR
XX (EPIG-) EPIGENOMICS AG.
PA
XX Olek A, Piepenbrock C, Berlin K;
PI
XX WPI; 2001-657177/75.
DR
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
PT
XX Claim 1; SEQ ID 230505; 29pp + Sequence Listing; German.
PS
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP).
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX AB000010-AB099989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX AB100010-AB182073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 13 BP; 2 A; 0 C; 6 G; 4 T; 1 other;

Query Match 7.9%; Score 11; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 2.5e+02;
Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1724 GATGAGATTGGC 1736
   ||||| |||||
   1 GATGAGTTGGY 13

DB

RESULT 347
ABH30529/C
ID ABH30529 standard; DNA; 13 BP.
XX
XX AC ABH30529;
XX
XX
DT 22-FEB-2002 (first entry)
XX
XX Oligonucleotide SEQ ID NO 230506 for detecting SNP TSC0056222.
DE
DE SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
OS
XX WO200177384-A2.
PN
XX 18-OCT-2001.
PD
XX
XX 06-APR-2001; 2001WO-IB00713.
PF
XX 07-APR-2000; 2000DE-1019173.
PR
XX (EPIG-) EPIGENOMICS AG.
PA
XX Olek A, Piepenbrock C, Berlin K;
PI
XX WPI; 2001-657177/75.
DR
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
PT
XX Claim 1; SEQ ID 230505; 29pp + Sequence Listing; German.
PS
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP).
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX AB000010-AB099989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX AB100010-AB182073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 13 BP; 2 A; 0 C; 6 G; 4 T; 1 other;

```

PI Olek A, Piepenbrock C, Berlin K;
 XX WPI; 2001-657177/75.
 XX
 PT Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single nucleotide polymorphisms and cytosine
 PT methylation status -
 XX
 XX Claim 1; SEQ ID 221105; 29pp + Sequence Listing; German.
 XX
 XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, cardiovascular, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation.
 CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 CC ABT00010-ABT82073 represent the oligomers described in the invention.
 CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.
 XX
 XX Sequence 13 BP; 3 A; 0 C; 6 G; 3 T; 1 other;
 SQ
 Query Match 7.9%; Score 11; DB 1; Length 13;
 Best Local Similarity 100.0%; Pred. No. 2.5e+02;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1737 TCCCAACTCCT 1747
 DB 11 TCCCAACTCCT 1
 RESULT 343
 ABH21129
 ID ABH21129 standard; DNA; 13 BP.
 AC ABH21129;
 XX
 DT 22-FEB-2002 (first entry)
 DE Oligonucleotide SEQ ID NO 221106 for detecting SNP TSC0053805.
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX Homo sapiens.
 OS
 XX W0200177384-A2.
 PN
 PD 18-OCT-2001.
 XX
 DT 22-FEB-2002 (first entry)
 DE Oligonucleotide SEQ ID NO 221106 for detecting SNP TSC0053805.
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX Homo sapiens.
 OS
 XX W0200177384-A2.
 PN
 PD 18-OCT-2001.
 XX
 DT 06-APR-2001; 2001WO-IB00713.
 PF
 PR 07-APR-2000; 2000DE-1019173.
 XX
 XX (EPIG-) EPIGENOMICS AG.
 PA
 PI Olek A, Piepenbrock C, Berlin K;
 XX WPI; 2001-657177/75.
 DR
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single nucleotide polymorphisms and cytosine
 PT methylation status -
 XX
 XX Claim 1; SEQ ID 221106; 29pp + Sequence Listing; German.
 XX
 XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, cardiovascular, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation.
 CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 CC ABT00010-ABT82073 represent the oligomers described in the invention.
 CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.
 XX
 XX Sequence 13 BP; 3 A; 0 C; 6 G; 3 T; 1 other;
 SQ
 Query Match 7.9%; Score 11; DB 1; Length 13;
 Best Local Similarity 100.0%; Pred. No. 2.5e+02;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1737 TCCCAACTCCT 1747
 DB 11 TCCCAACTCCT 1
 RESULT 344
 ABH22016
 ID ABH22016 standard; DNA; 13 BP.
 AC ABH22016;
 XX
 DT 22-FEB-2002 (first entry)
 DE Oligonucleotide SEQ ID NO 221993 for detecting SNP TSC0054021.
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX Homo sapiens.
 OS
 XX W0200177384-A2.
 PN
 PD 18-OCT-2001.
 XX
 DT 06-APR-2001; 2001WO-IB00713.
 PF
 PR 07-APR-2000; 2000DE-1019173.
 XX
 XX (EPIG-) EPIGENOMICS AG.
 PA
 PI Olek A, Piepenbrock C, Berlin K;
 XX WPI; 2001-657177/75.
 DR
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single nucleotide polymorphisms and cytosine
 PT methylation status -
 XX
 XX Claim 1; SEQ ID 221993; 29pp + Sequence Listing; German.
 XX
 XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, cardiovascular, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation.
 CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 CC ABT00010-ABT82073 represent the oligomers described in the invention.
 CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.
 XX
 XX Sequence 13 BP; 3 A; 0 C; 6 G; 3 T; 1 other;
 SQ
 Query Match 7.9%; Score 11; DB 1; Length 13;
 Best Local Similarity 100.0%; Pred. No. 2.5e+02;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1737 TCCCAACTCCT 1747
 DB 3 TCCCAACTCCT 13

RESULT 340
ABH19250
ID ABH19250 standard; DNA; 13 BP.
XX
XX AC ABH19250;
XX
XX DT 22-FEB-2002 (first entry)
XX
XX DE Oligonucleotide SEQ ID NO 219227 for detecting SNP TSC0053301.
XX
XX KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX OS Homo sapiens.
XX
XX PN WO200177384-A2.
XX
XX PD 18-OCT-2001.
XX
XX PF 06-APR-2001; 2001WO-IB00713.
XX
XX PR 07-APR-2000; 2000DE-1019173.
XX
XX PA (EPIG-) EPIGENOMICS AG.
XX
XX PI Olek A, Piepenbrock C, Berlin K;
XX
XX DR WPI; 2001-657177/75.
XX
XX OS Set of oligonucleotides, useful for diagnosis and cell typing, is
XX PT designed to detect single nucleotide polymorphisms and cytosine
XX PT methylation status -
XX
XX PS Claim 1; SEQ ID 219227; 29pp + Sequence Listing; German.
XX
XX CC This invention describes novel oligonucleotide primers or peptide nucleic
XX CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX CC and cytosine methylation status in chemically pretreated genomic DNA. The
XX CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX CC range of diseases including immune system, gastrointestinal, respiratory,
XX CC central nervous system, cardiovascular and metabolic disorders. The
XX CC oligomers are also used for detecting cell type differentiation.
XX CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX CC ABT00010-ABT82073 represent the oligomers described in the invention.
XX CC NOTE: The sequence data for this patent did not form part of the printed
XX CC specification, but was obtained in electronic format from WIPO at
XX CC ftp.wipo.int/pub/published_pct_sequences.
XX
XX SQ Sequence 13 BP; 4 A; 1 C; 6 G; 2 T; 0 other;
XX
XX CC This invention describes novel oligonucleotide primers or peptide nucleic
XX CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX CC and cytosine methylation status in chemically pretreated genomic DNA. The
XX CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX CC range of diseases including immune system, gastrointestinal, respiratory,
XX CC central nervous system, cardiovascular and metabolic disorders. The
XX CC oligomers are also used for detecting cell type differentiation.
XX CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX CC ABT00010-ABT82073 represent the oligomers described in the invention.
XX CC NOTE: The sequence data for this patent did not form part of the printed
XX CC specification, but was obtained in electronic format from WIPO at
XX CC ftp.wipo.int/pub/published_pct_sequences.
XX
XX SQ Sequence 13 BP; 4 A; 1 C; 6 G; 2 T; 0 other;
XX
XX Query Match 7.9%; Score 11; DB 1; Length 13;
XX Best Local Similarity 100.0%; Pred. No. 2.5e+02;
XX Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 1715 GAGTACGGAGA 1725
XX
XX DB 2 GAGTACGGAGA 12
XX
XX RESULT 341
XX ABH19251/c
XX ID ABH19251 standard; DNA; 13 BP.
XX
XX AC ABH19251;
XX
XX DT 22-FEB-2002 (first entry)
XX
XX DE Oligonucleotide SEQ ID NO 219228 for detecting SNP TSC0053301.
XX
XX KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX KW central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX OS Homo sapiens.
XX
XX PN WO200177384-A2.
XX
XX PD 18-OCT-2001.
XX
XX PF 06-APR-2001; 2001WO-IB00713.
XX
XX PR 07-APR-2000; 2000DE-1019173.
XX
XX PA (EPIG-) EPIGENOMICS AG.
XX
XX PI Olek A, Piepenbrock C, Berlin K;
XX
XX DR WPI; 2001-657177/75.
XX
XX OS Set of oligonucleotides, useful for diagnosis and cell typing, is
XX PT designed to detect single nucleotide polymorphisms and cytosine
XX PT methylation status -
XX
XX PS Claim 1; SEQ ID 219228; 29pp + Sequence Listing; German.
XX
XX CC This invention describes novel oligonucleotide primers or peptide nucleic
XX CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX CC and cytosine methylation status in chemically pretreated genomic DNA. The
XX CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX CC range of diseases including immune system, gastrointestinal, respiratory,
XX CC central nervous system, cardiovascular and metabolic disorders. The
XX CC oligomers are also used for detecting cell type differentiation.
XX CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX CC ABT00010-ABT82073 represent the oligomers described in the invention.
XX CC NOTE: The sequence data for this patent did not form part of the printed
XX CC specification, but was obtained in electronic format from WIPO at
XX CC ftp.wipo.int/pub/published_pct_sequences.
XX
XX SQ Sequence 13 BP; 2 A; 6 C; 1 G; 4 T; 0 other;
XX
XX Query Match 7.9%; Score 11; DB 1; Length 13;
XX Best Local Similarity 100.0%; Pred. No. 2.5e+02;
XX Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 1715 GAGTACGGAGA 1725
XX
XX DB 12 GAGTACGGAGA 2
XX
XX RESULT 342
XX ABH21128/c
XX ID ABH21128 standard; DNA; 13 BP.
XX
XX AC ABH21128;
XX
XX DT 22-FEB-2002 (first entry)
XX
XX DE Oligonucleotide SEQ ID NO 221105 for detecting SNP TSC0053805.
XX
XX KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX OS Homo sapiens.
XX
XX PN WO200177384-A2.
XX
XX PD 18-OCT-2001.
XX
XX PF 06-APR-2001; 2001WO-IB00713.
XX
XX PR 07-APR-2000; 2000DE-1019173.
XX
XX PA (EPIG-) EPIGENOMICS AG.
XX


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PS Claim 1; SEQ ID 205384; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC AB100010-AB182073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 13 BP; 3 A; 7 C; 1 G; 1 T; 1 other;
Query Match 7.9%; Score 11; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 2.5e+02;
Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
QY 1694 GCGTGGTGGAGT 1705
DB 13 GCGTGGTGGTGG 1
RESULT 338
ABH08492
ID ABH08492 standard; DNA; 13 BP.
AC ABH08492;
XX
XX 22-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 208469 for detecting SNP TSC0050942.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
XX (EPIG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status -
XX
XX Claim 1; SEQ ID 208469; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC AB100010-AB182073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 13 BP; 3 A; 6 C; 0 G; 3 T; 0 other;
Query Match 7.9%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 2.5e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1698 GGTGGAAGTTG 1708
DB 13 GGTGGAAGTTG 3
RESULT 339
ABH08493/C
ID ABH08493 standard; DNA; 13 BP.
XX
XX ABH08493;
XX
XX 22-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 208470 for detecting SNP TSC0050942.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
XX (EPIG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status -
XX
XX Claim 1; SEQ ID 208470; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC AB100010-AB182073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 13 BP; 4 A; 6 C; 0 G; 3 T; 0 other;
Query Match 7.9%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 2.5e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1698 GGTGGAAGTTG 1708
DB 13 GGTGGAAGTTG 3
```

DE Oligonucleotide SEQ ID NO 201562 for detecting SNP TSC0049571.
 XX
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
 OS Homo sapiens.
 XX
 XX WO200177384-A2.
 XX
 XX 18-OCT-2001.
 XX
 XX 06-APR-2001; 2001WO-IB00713.
 XX
 XX 07-APR-2000; 2000DE-1019173.
 XX
 XX (EPIG-) EPIGENOMICS AG.
 XX
 XX Olek A, Piepenbrock C, Berlin K;
 XX WPI; 2001-657177/75.
 XX
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single nucleotide polymorphisms and cytosine
 PT methylation status -
 XX
 XX Claim 1; SEQ ID 201562; 29pp + Sequence Listing; German.
 XX
 XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation.
 CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 CC AB100010-AB182073 represent the oligomers described in the invention.
 CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.
 XX
 XX Sequence 13 BP; 2 A; 8 C; 0 G; 3 T; 0 other;
 XX
 XX Query Match 7.9%; Score 11; DB 1; Length 13;
 XX Best Local Similarity 100.0%; Pred. No. 2.5e+02;
 XX Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 XX
 XX QY 1736 CTCCTCACTCC 1746
 XX | | | | | | | | | |
 XX 3 CTCCTCACTCC 13
 XX
 XX RESULT 336
 XX ABH05406
 XX ID ABH05406 standard; DNA; 13 BP.
 XX AC ABH05406;
 XX XX
 XX 22-FEB-2002 (first entry)
 XX
 XX Oligonucleotide SEQ ID NO 205383 for detecting SNP TSC0050352.
 XX
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
 OS Homo sapiens.
 XX
 XX WO200177384-A2.
 XX
 XX 18-OCT-2001.
 XX
 XX 06-APR-2001; 2001WO-IB00713.
 XX
 XX (EPIG-) EPIGENOMICS AG.
 XX
 XX Olek A, Piepenbrock C, Berlin K;
 XX WPI; 2001-657177/75.
 XX
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single nucleotide polymorphisms and cytosine
 PT methylation status -
 XX
 XX Claim 1; SEQ ID 201562; 29pp + Sequence Listing; German.
 XX
 XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation.
 CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 CC AB100010-AB182073 represent the oligomers described in the invention.
 CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.
 XX
 XX Sequence 13 BP; 2 A; 8 C; 0 G; 3 T; 0 other;
 XX
 XX Query Match 7.9%; Score 11; DB 1; Length 13;
 XX Best Local Similarity 100.0%; Pred. No. 2.5e+02;
 XX Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 XX
 XX QY 1736 CTCCTCACTCC 1746
 XX | | | | | | | | | |
 XX 3 CTCCTCACTCC 13
 XX
 XX RESULT 336
 XX ABH05406
 XX ID ABH05406 standard; DNA; 13 BP.
 XX AC ABH05406;
 XX XX
 XX 22-FEB-2002 (first entry)
 XX
 XX Oligonucleotide SEQ ID NO 205383 for detecting SNP TSC0050352.
 XX
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
 OS Homo sapiens.
 XX
 XX WO200177384-A2.
 XX
 XX 18-OCT-2001.
 XX
 XX 06-APR-2001; 2001WO-IB00713.
 XX

XX 07-APR-2000; 2000DE-1019173.
 XX
 XX (EPIG-) EPIGENOMICS AG.
 XX
 XX Olek A, Piepenbrock C, Berlin K;
 XX WPI; 2001-657177/75.
 XX
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single nucleotide polymorphisms and cytosine
 PT methylation status -
 XX
 XX Claim 1; SEQ ID 205383; 29pp + Sequence Listing; German.
 XX
 XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation.
 CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 CC AB100010-AB182073 represent the oligomers described in the invention.
 CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.
 XX
 XX Sequence 13 BP; 1 A; 1 C; 7 G; 3 T; 1 other;
 XX
 XX Query Match 7.9%; Score 11; DB 1; Length 13;
 XX Best Local Similarity 84.8%; Pred. No. 2.5e+02;
 XX Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
 XX
 XX QY 1694 GCGTGTGGGAAGT 1706
 XX | | | | | | | | | |
 XX 1 GCGTGTGGTGGTGGY 13
 XX
 XX RESULT 337
 XX ABH05407/c
 XX ID ABH05407 standard; DNA; 13 BP.
 XX AC ABH05407;
 XX XX
 XX 22-FEB-2002 (first entry)
 XX
 XX Oligonucleotide SEQ ID NO 205384 for detecting SNP TSC0050352.
 XX
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
 OS Homo sapiens.
 XX
 XX WO200177384-A2.
 XX
 XX 18-OCT-2001.
 XX
 XX 06-APR-2001; 2001WO-IB00713.
 XX
 XX 07-APR-2000; 2000DE-1019173.
 XX
 XX (EPIG-) EPIGENOMICS AG.
 XX
 XX Olek A, Piepenbrock C, Berlin K;
 XX WPI; 2001-657177/75.
 XX
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single nucleotide polymorphisms and cytosine
 PT methylation status -
 XX

CC oligomers are also used for detecting cell type differentiation.
 CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 CC ABI00010-ABI82073 represent the oligomers described in the invention.
 CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.
 XX
 SQ Sequence 13 BP; 3 A; 0 C; 4 G; 6 T; 0 other;
 Query Match 7.9%; Score 11; DB 1; Length 13;
 Best Local Similarity 100.0%; Pred. No. 2.5e+02;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1749 CCTATCCTAA 1759
 DB 13 CCTATCCTAA 3
 RESULT 333
 ABF98563
 ID ABF98563 standard; DNA; 13 BP.
 AC ABF98563;
 XX
 XX 22-FEB-2002 (first entry)
 DT
 DE Oligonucleotide SEQ ID NO 198560 for detecting SNP TSC0048863.
 XX
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX
 OS Homo sapiens.
 XX
 XX WO200177384-A2.
 PN
 XX
 XX 18-OCT-2001.
 PD
 XX
 XX 06-APR-2001; 2001WO-IB00713.
 PF
 XX
 XX 07-APR-2000; 2000DE-1019173.
 PR
 XX
 XX (EPIG-) EPIGENOMICS AG.
 PA
 XX
 XX Olek A, Piepenbrock C, Berlin K;
 PI
 XX
 XX WPI; 2001-657177/75.
 DR
 XX
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single nucleotide polymorphisms and cytosine
 PT methylation status -
 PT
 XX
 XX Claim 1; SEQ ID 198560; 29pp + Sequence Listing; German.
 PS
 XX
 XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation.
 CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 CC ABI00010-ABI82073 represent the oligomers described in the invention.
 CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.
 XX
 SQ Sequence 13 BP; 6 A; 4 C; 0 G; 3 T; 0 other;
 Query Match 7.9%; Score 11; DB 1; Length 13;
 Best Local Similarity 100.0%; Pred. No. 2.5e+02;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1749 CCTATCCTAA 1759
 DB 1 CCTATCCTAA 11
 RESULT 334
 ABH01584/C
 ID ABH01584 standard; DNA; 13 BP.
 XX
 XX ABH01584;
 AC
 XX
 XX 22-FEB-2002 (first entry)
 DT
 DE Oligonucleotide SEQ ID NO 201561 for detecting SNP TSC0049571.
 XX
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX
 OS Homo sapiens.
 XX
 XX WO200177384-A2.
 PN
 XX
 XX 18-OCT-2001.
 PD
 XX
 XX 06-APR-2001; 2001WO-IB00713.
 PF
 XX
 XX 07-APR-2000; 2000DE-1019173.
 PR
 XX
 XX (EPIG-) EPIGENOMICS AG.
 PA
 XX
 XX Olek A, Piepenbrock C, Berlin K;
 PI
 XX
 XX WPI; 2001-657177/75.
 DR
 XX
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single nucleotide polymorphisms and cytosine
 PT methylation status -
 PT
 XX
 XX Claim 1; SEQ ID 201561; 29pp + Sequence Listing; German.
 PS
 XX
 XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation.
 CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 CC ABI00010-ABI82073 represent the oligomers described in the invention.
 CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.
 XX
 SQ Sequence 13 BP; 3 A; 0 C; 8 G; 2 T; 0 other;
 Query Match 7.9%; Score 11; DB 1; Length 13;
 Best Local Similarity 100.0%; Pred. No. 2.5e+02;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1736 CTCCCACTCC 1746
 DB 11 CTCCCACTCC 1
 RESULT 335
 ABH01585
 ID ABH01585 standard; DNA; 13 BP.
 XX
 XX ABH01585;
 AC
 XX
 XX 22-FEB-2002 (first entry)
 DT
 XX

PN WO200177384-A2.
 XX
 XX 18-OCT-2001.
 XX
 PF 06-APR-2001; 2001WO-IB00713.
 XX
 XX 07-APR-2000; 2000DE-1019173.
 PR
 XX (EPIG-) EPIGENOMICS AG.
 PA
 XX Olek A, Piepenbrock C, Berlin K;
 XX
 XX WPI; 2001-657177/75.
 DR
 XX
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single nucleotide polymorphisms and cytosine
 PT methylation status -
 PT
 XX Claim 1; SEQ ID 186038; 29pp + Sequence Listing; German.
 PS
 XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation.
 CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 CC AB100010-AB182073 represent the oligomers described in the invention.
 CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.
 XX
 XX Sequence 13 BP; 1 A; 7 C; 1 G; 3 T; 1 other;
 SQ
 Query Match 7.9%; Score 11; DB 1; Length 13;
 Best Local Similarity 100.0%; Pred. No. 2.5e+02;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1714 GGAGTACGGAG 1724
 Db 13 GGAGTACGGAG 3
 |||||
 |||||
 RESULT 332
 ABF98562/C
 ID ABF98562 standard; DNA; 13 BP.
 XX
 AC ABF98562;
 XX
 XX 22-FEB-2002 (first entry)
 DT
 XX Oligonucleotide SEQ ID NO 198559 for detecting SNP TSC0048863.
 DE
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX
 OS Homo sapiens.
 XX
 XX WO200177384-A2.
 PN
 XX 18-OCT-2001.
 PD
 XX 06-APR-2001; 2001WO-IB00713.
 PF
 XX 07-APR-2000; 2000DE-1019173.
 PR
 XX (EPIG-) EPIGENOMICS AG.
 PA
 XX Olek A, Piepenbrock C, Berlin K;
 XX
 XX WPI; 2001-657177/75.
 DR
 XX
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single nucleotide polymorphisms and cytosine
 PT methylation status -
 PT
 XX Claim 1; SEQ ID 198559; 29pp + Sequence Listing; German.
 PS
 XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation.
 CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 CC AB100010-AB182073 represent the oligomers described in the invention.
 CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.
 XX
 XX Sequence 13 BP; 3 A; 1 C; 7 G; 1 T; 1 other;
 SQ
 Query Match 7.9%; Score 11; DB 1; Length 13;
 Best Local Similarity 100.0%; Pred. No. 2.5e+02;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1714 GGAGTACGGAG 1724
 Db 1 GGAGTACGGAG 11
 |||||
 |||||
 RESULT 331
 ABF86041/C
 ID ABF86041 standard; DNA; 13 BP.
 XX
 AC ABF86041;
 XX
 XX 22-FEB-2002 (first entry)
 DT
 XX Oligonucleotide SEQ ID NO 186038 for detecting SNP TSC0045841.
 DE
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX
 OS Homo sapiens.
 XX
 XX WO200177384-A2.
 PN
 XX 18-OCT-2001.
 PD
 XX 06-APR-2001; 2001WO-IB00713.
 PF
 XX 07-APR-2000; 2000DE-1019173.
 PR
 XX (EPIG-) EPIGENOMICS AG.
 PA
 XX Olek A, Piepenbrock C, Berlin K;
 XX
 XX WPI; 2001-657177/75.
 DR

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Query Match          7.9%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 2.5e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1722 GAGATGGAGAT 1732
Db 12 GAGATGGAGAT 2
|||||
RESULT 328
ABF84270
ID ABF84270 standard; DNA; 13 BP.
XX
AC ABF84270;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 184257 for detecting SNP TSC0006682.
XX
KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB00713.
XX
PR 07-APR-2000; 2000DE-1019173.
XX
PA (EPITG-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
PS WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX
PS Claim 1; SEQ ID 184267; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABH00010-ABH99989 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 13 BP; 5 A; 0 C; 4 G; 4 T; 0 other;

Query Match          7.9%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 2.5e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1723 AGATGGAGATT 1733
Db 3 AGATGGAGATT 13
|||||
RESULT 329
ABF84271/C
ID ABF84271 standard; DNA; 13 BP.
XX
AC ABF84271;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 184268 for detecting SNP TSC0006682.
XX
KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB00713.
XX
PR 07-APR-2000; 2000DE-1019173.
XX
PA (EPITG-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
PS WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX
PS Claim 1; SEQ ID 184268; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABH00010-ABH99989 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 13 BP; 5 A; 0 C; 4 G; 4 T; 0 other;

Query Match          7.9%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 2.5e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1723 AGATGGAGATT 1733
Db 3 AGATGGAGATT 13
|||||
RESULT 330
ABF86040
ID ABF86040 standard; DNA; 13 BP.
XX
AC ABF86040;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 186037 for detecting SNP TSC0045841.
XX
KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB00713.
XX
PR 07-APR-2000; 2000DE-1019173.
XX
PA (EPITG-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
PS WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX
PS Claim 1; SEQ ID 184268; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABH00010-ABH99989 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 13 BP; 4 A; 4 C; 0 G; 5 T; 0 other;

Query Match          7.9%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 2.5e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1723 AGATGGAGATT 1733
Db 11 AGATGGAGATT 1
|||||
RESULT 330
ABF86040
ID ABF86040 standard; DNA; 13 BP.
XX
AC ABF86040;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 186037 for detecting SNP TSC0045841.
XX
KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB00713.
XX
PR 07-APR-2000; 2000DE-1019173.
XX
PA (EPITG-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
PS WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX
PS Claim 1; SEQ ID 184268; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABH00010-ABH99989 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 13 BP; 4 A; 4 C; 0 G; 5 T; 0 other;

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PA (EPIG-) EPIGENOMICS AG.
 XX Olek A, Piepenbrock C, Berlin K;
 PI WPI; 2001-657177/75.
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single nucleotide polymorphisms and cytosine
 PT methylation status -
 XX Claim 1; SEQ ID 135840; 29pp + Sequence Listing; German.
 XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation.
 CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 CC ABI00010-ABI82073 represent the oligomers described in the invention.
 CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.
 XX Sequence 13 BP; 2 A; 5 C; 1 G; 4 T; 1 other;
 XX Query Match 7.9%; Score 11; DB 1; Length 13;
 XX Best Local Similarity 84.6%; Pred. No. 2.5e+02;
 XX Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
 QY 1721 GGAGATCGAGATT 1733
 DB 13 GGAGATCGAGATT 1
 RESULT 326
 ABF46426
 ID ABF46426 standard; DNA; 13 BP.
 XX AC ABF46426;
 XX 21-FEB-2002 (first entry)
 DE Oligonucleotide SEQ ID NO 146423 for detecting SNP TSC0036912.
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX Homo sapiens.
 XX WO200177384-A2.
 XX 18-OCT-2001.
 XX 06-APR-2001; 2001WO-IB00713.
 XX 07-APR-2000; 2000DE-1019173.
 XX (EPIG-) EPIGENOMICS AG.
 PA Olek A, Piepenbrock C, Berlin K;
 PI WPI; 2001-657177/75.
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single nucleotide polymorphisms and cytosine
 PT methylation status -
 XX Claim 1; SEQ ID 146423; 29pp + Sequence Listing; German.
 XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation.
 CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 CC ABI00010-ABI82073 represent the oligomers described in the invention.
 CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.
 XX Sequence 13 BP; 2 A; 5 C; 1 G; 4 T; 1 other;
 XX Query Match 7.9%; Score 11; DB 1; Length 13;
 XX Best Local Similarity 84.6%; Pred. No. 2.5e+02;
 XX Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
 QY 1721 GGAGATCGAGATT 1733
 DB 13 GGAGATCGAGATT 1
 RESULT 327
 ABF46427/c
 ID ABF46427 standard; DNA; 13 BP.
 XX AC ABF46427;
 XX 21-FEB-2002 (first entry)
 DE Oligonucleotide SEQ ID NO 146424 for detecting SNP TSC0036912.
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX Homo sapiens.
 XX WO200177384-A2.
 XX 18-OCT-2001.
 XX 06-APR-2001; 2001WO-IB00713.
 XX 07-APR-2000; 2000DE-1019173.
 XX (EPIG-) EPIGENOMICS AG.
 PA Olek A, Piepenbrock C, Berlin K;
 PI WPI; 2001-657177/75.
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single nucleotide polymorphisms and cytosine
 PT methylation status -
 XX Claim 1; SEQ ID 146424; 29pp + Sequence Listing; German.
 XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation.
 CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 CC ABI00010-ABI82073 represent the oligomers described in the invention.
 CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.
 XX Sequence 13 BP; 2 A; 6 C; 0 G; 5 T; 0 other;
 XX Query Match 7.9%; Score 11; DB 1; Length 13;
 XX Best Local Similarity 100.0%; Pred. No. 2.5e+02;
 XX Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1722 GAGATGGAGAT 1732
 DB 2 GAGATGGAGAT 12
 RESULT 327
 ABF46427/c
 ID ABF46427 standard; DNA; 13 BP.
 XX AC ABF46427;
 XX 21-FEB-2002 (first entry)
 DE Oligonucleotide SEQ ID NO 146424 for detecting SNP TSC0036912.
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX Homo sapiens.
 XX WO200177384-A2.
 XX 18-OCT-2001.
 XX 06-APR-2001; 2001WO-IB00713.
 XX 07-APR-2000; 2000DE-1019173.
 XX (EPIG-) EPIGENOMICS AG.
 PA Olek A, Piepenbrock C, Berlin K;
 PI WPI; 2001-657177/75.
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single nucleotide polymorphisms and cytosine
 PT methylation status -
 XX Claim 1; SEQ ID 146424; 29pp + Sequence Listing; German.
 XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation.
 CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 CC ABI00010-ABI82073 represent the oligomers described in the invention.
 CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.
 XX Sequence 13 BP; 2 A; 6 C; 0 G; 5 T; 0 other;

Mon Jan 12 13:57:51 2004

peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
central nervous system; gastrointestinal; respiratory; immune; metabolic.

Homo sapiens.
WO200177384-A2.
18-OCT-2001.

06-APR-2001; 2001WO-IB00713.
07-APR-2000; 2000DE-1019173.
(EPIG-) EPIGENOMICS AG.
Olek A, Piepenbrock C, Berlin K;
WPI; 2001-657177/75.

Set of oligonucleotides, useful for diagnosis and cell typing, is
designed to detect single nucleotide polymorphisms and cytosine
methylation status -
Claim 1; SEQ ID 135839; 29pp + Sequence Listing; German.
This invention describes novel oligonucleotide primers or peptide nucleic
acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
and cytosine methylation status in chemically pretreated genomic DNA. The
oligonucleotides are used for diagnosis and/or prognosis of cancer and a
range of diseases including immune system, gastrointestinal, respiratory,
central nervous system, cardiovascular and metabolic disorders. The
oligonucleotides are also used for detecting cell type differentiation.
ABC00010-ABC9989, ABF00010-ABF9989, ABH00010-ABH9989 and
ABI00010-ABI82073 represent the oligomers described in the invention.
NOTE: The sequence data for this patent did not form part of the printed
specification, but was obtained in electronic format from WIPO at
ftp.wipo.int/pub/published_pct_sequences.

Sequence 13 BP; 4 A; 1 C; 5 G; 2 T; 1 other;
Query Match 7.9%; Score 11; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 2.5e+02;
Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
Qy 1721 GGAGATGGAGATT 1733
Db 1 GGAGATCGAGATY 13
RESULT 325
ABF35843/c
ID ABF35843 standard; DNA; 13 BP.
AC ABF35843;
XX 21-FEB-2002 (first entry)
DT 21-FEB-2002 (first entry)
DE Oligonucleotide SEQ ID NO 135840 for detecting SNP TSC0033923.
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX Homo sapiens.
OS WO200177384-A2.
PN 18-OCT-2001.
PD 06-APR-2001; 2001WO-IB00713.
PF 07-APR-2000; 2000DE-1019173.
PR (EPIG-) EPIGENOMICS AG.
PA Olek A, Piepenbrock C, Berlin K;
PI WPI; 2001-657177/75.
PX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
PS Claim 1; SEQ ID 135838; 29pp + Sequence Listing; German.
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABC9989, ABF00010-ABF9989, ABH00010-ABH9989 and
XX ABI00010-ABI82073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.

peptide nucleic acid; cytosine methylation; human; diagnosis; PNA; cancer; CNS;
peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
central nervous system; gastrointestinal; respiratory; immune; metabolic.

Homo sapiens.
WO200177384-A2.
18-OCT-2001.

06-APR-2001; 2001WO-IB00713.
07-APR-2000; 2000DE-1019173.
(EPIG-) EPIGENOMICS AG.
Olek A, Piepenbrock C, Berlin K;
WPI; 2001-657177/75.

Set of oligonucleotides, useful for diagnosis and cell typing, is
designed to detect single nucleotide polymorphisms and cytosine
methylation status -
Claim 1; SEQ ID 135838; 29pp + Sequence Listing; German.
This invention describes novel oligonucleotide primers or peptide nucleic
acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
and cytosine methylation status in chemically pretreated genomic DNA. The
oligonucleotides are used for diagnosis and/or prognosis of cancer and a
range of diseases including immune system, gastrointestinal, respiratory,
central nervous system, cardiovascular and metabolic disorders. The
oligonucleotides are also used for detecting cell type differentiation.
ABC00010-ABC9989, ABF00010-ABF9989, ABH00010-ABH9989 and
ABI00010-ABI82073 represent the oligomers described in the invention.
NOTE: The sequence data for this patent did not form part of the printed
specification, but was obtained in electronic format from WIPO at
ftp.wipo.int/pub/published_pct_sequences.

Sequence 13 BP; 3 A; 5 C; 0 G; 4 T; 1 other;
Query Match 7.9%; Score 11; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 2.5e+02;
Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
Qy 1721 GGAGATGGAGATT 1733
Db 13 GGAGATCGAGATY 1
RESULT 324
ABF35842
ID ABF35842 standard; DNA; 13 BP.
AC ABF35842;
XX 21-FEB-2002 (first entry)
DT 21-FEB-2002 (first entry)
DE Oligonucleotide SEQ ID NO 135839 for detecting SNP TSC0033923.
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;

methylation status -
Claim 1; SEQ ID 128973; 29pp + Sequence Listing; German.
This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation.
ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention.
NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at ftp.wipo.int/pub/published_pct_sequences.
Sequence 13 BP; 2 A; 1 C; 7 G; 3 T; 0 other;
Query Match 7.9%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 2.5e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1735 GCTCCCAACTC 1745
Db 12 GCTCCCAACTC 2
RESULT 321
ABF28977
ID ABF28977 standard; DNA; 13 BP.
AC ABF28977;
XX
DT 21-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 128974 for detecting SNP TSC0032287.
XX
KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB00713.
XX
PR 07-APR-2000; 2000DE-1019173.
XX
PA (EPIG-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
OS WPI; 2001-657177/75.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB00713.
XX
PR 07-APR-2000; 2000DE-1019173.
XX
PA (EPIG-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
DR WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX
PS Claim 1; SEQ ID 128974; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABI00010-ABI82073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 13 BP; 2 A; 1 C; 7 G; 3 T; 0 other;
Query Match 7.9%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 2.5e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1735 GCTCCCAACTC 1745
Db 12 GCTCCCAACTC 2
RESULT 321
ABF28977
ID ABF28977 standard; DNA; 13 BP.
AC ABF28977;
XX
DT 21-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 128974 for detecting SNP TSC0032287.
XX
KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB00713.
XX
PR 07-APR-2000; 2000DE-1019173.
XX
PA (EPIG-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
DR WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX
PS Claim 1; SEQ ID 128974; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABI00010-ABI82073 represent the oligomers described in the invention.
CC

CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 13 BP; 3 A; 7 C; 1 G; 2 T; 0 other;
Query Match 7.9%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 2.5e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1735 GCTCCCAACTC 1745
Db 2 GCTCCCAACTC 12
RESULT 322
ABF35840
ID ABF35840 standard; DNA; 13 BP.
XX
AC ABF35840;
XX
DT 21-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 135837 for detecting SNP TSC0033923.
XX
KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
FN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB00713.
XX
PR 07-APR-2000; 2000DE-1019173.
XX
PA (EPIG-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
DR WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX
PS Claim 1; SEQ ID 135837; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABI00010-ABI82073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 13 BP; 4 A; 0 C; 5 G; 3 T; 1 other;
Query Match 7.9%; Score 11; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 2.5e+02;
Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
QY 1721 GGAGATGGAGATT 1733
Db 1 GGAGATGGAGATT 13


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DT 21-FEB-2002 (first entry)
DE Oligonucleotide SEQ ID NO 122695 for detecting SNP TSC0030668.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
XX (EPIG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX
XX Claim 1; SEQ ID 122695; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABT00010-ABT99989 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 13 BP; 4 A; 0 C; 8 G; 0 U; 1 other;
XX
XX Query Match 7.9%; Score 11; DB 1; Length 13;
XX Best Local Similarity 84.6%; Pred. No. 2.5e+02;
XX Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
XX
QY 1742 ACTCCTCCCTATC 1754
Dd 13 RCTCCTCCCTCTC 1
XX
RESULT 319
ABF22699
ID ABF22699 standard; DNA; 13 BP.
XX
XX AC ABF22699;
XX
XX 21-FEB-2002 (first entry)
XX
XX Oligonucleotide SEQ ID NO 122696 for detecting SNP TSC0030669.
DE
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX

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XX 06-APR-2001; 2001WO-IB00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
XX (EPIG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX
XX Claim 1; SEQ ID 122696; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABT00010-ABT99989 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 13 BP; 0 A; 8 C; 0 G; 4 T; 1 other;
XX
XX Query Match 7.9%; Score 11; DB 1; Length 13;
XX Best Local Similarity 84.6%; Pred. No. 2.5e+02;
XX Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
XX
QY 1742 ACTCCTCCCTATC 1754
Dd 1 RCTCCTCCCTCTC 13
XX
RESULT 320
ABF28976/C
ID ABF28976 standard; DNA; 13 BP.
XX
XX AC ABF28976;
XX
XX 21-FEB-2002 (first entry)
XX
XX Oligonucleotide SEQ ID NO 128973 for detecting SNP TSC0032287.
DE
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
XX (EPIG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX

```

CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation.
 CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 CC ABT00010-ABT82073 represent the oligomers described in the invention.
 CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.

XX SQ Sequence 13 BP; 5 A; 6 C; 0 G; 2 T; 0 other;

Query Match 7.9%; Score 11; DB 1; Length 13;
 Best Local Similarity 100.0%; Pred. No. 2.5e+02;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1697 TGGTGGAGATT 1707

Db 11 TGGTGGAGATT 1

RESULT 316

ABF15420
 ID ABF15420 standard; DNA; 13 BP.

XX AC ABF15420;

XX DT 21-FEB-2002 (first entry)

XX DE Oligonucleotide SEQ ID NO 115417 for detecting SNP TSC0028927.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX OS Homo sapiens.

XX PN WO200177384-A2.

XX PD 18-OCT-2001.

XX PF 06-APR-2001; 2001WO-IB00713.

XX PR 07-APR-2000; 2000DE-1019173.

XX PA (EPIC-) EPIGENOMICS AG.

XX PI Olek A, Piepenbrock C, Berlin K;

XX WPI; 2001-657177/75.

XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single nucleotide polymorphisms and cytosine
 PT methylation status -

XX Claim 1; SEQ ID 115417; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation.
 CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 CC ABT00010-ABT82073 represent the oligomers described in the invention.
 CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.

XX SQ Sequence 13 BP; 3 A; 1 C; 6 G; 2 T; 1 other;

Query Match 7.9%; Score 11; DB 1; Length 13;
 Best Local Similarity 100.0%; Pred. No. 2.5e+02;

Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1694 GCGTGGTGAA 1704

Db 1 GCGTGGTGAA 11

RESULT 317

ABF15421/C
 ID ABF15421 standard; DNA; 13 BP.

XX AC ABF15421;

XX DT 21-FEB-2002 (first entry)

XX DE Oligonucleotide SEQ ID NO 115418 for detecting SNP TSC0028927.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX OS Homo sapiens.

XX PN WO200177384-A2.

XX PD 18-OCT-2001.

XX PF 06-APR-2001; 2001WO-IB00713.

XX PR 07-APR-2000; 2000DE-1019173.

XX PA (EPIC-) EPIGENOMICS AG.

XX PI Olek A, Piepenbrock C, Berlin K;

XX WPI; 2001-657177/75.

XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single nucleotide polymorphisms and cytosine
 PT methylation status -

XX Claim 1; SEQ ID 115418; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation.
 CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 CC ABT00010-ABT82073 represent the oligomers described in the invention.
 CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.

XX SQ Sequence 13 BP; 2 A; 6 C; 1 G; 3 T; 1 other;

Query Match 7.9%; Score 11; DB 1; Length 13;
 Best Local Similarity 100.0%; Pred. No. 2.5e+02;

Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1694 GCGTGGTGAA 1704

Db 13 GCGTGGTGAA 3

RESULT 318

ABF22698/C
 ID ABF22698 standard; DNA; 13 BP.

XX AC ABF22698;


```
XX SQ Sequence 13 BP; 5 A; 0 C; 7 G; 1 T; 0 other;
Query Match 7.9%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 2.5e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1721 GGAGATGGAGA 1731
Db 1 GGAGATGGAGA 11

RESULT 311
ABC61029/c
ID ABC61029 standard; DNA; 13 BP.
XX AC ABC61029;
XX DT 21-FEB-2002 (first entry)
XX DE Oligonucleotide SEQ ID NO 61046 for detecting SNP TSC0016265.
XX KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX OS Homo sapiens.
XX PN WO200177384-A2.
XX PD 18-OCT-2001.
XX PF 06-APR-2001; 2001WO-IB00713.
XX PR 07-APR-2000; 2000DE-1019173.
XX PA (EPIG-) EPIGENOMICS AG.
XX PI Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status -
XX Claim 1; SEQ ID 61046; 29pp + Sequence Listing; German.
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX ABI00010-ABI82073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX SQ Sequence 13 BP; 1 A; 7 C; 0 G; 5 T; 0 other;
Query Match 7.9%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 2.5e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1721 GGAGATGGAGA 1731
Db 13 GGAGATGGAGA 3

RESULT 312
ABC61029/c
ID ABC61029 standard; DNA; 13 BP.
XX AC ABC61029;
XX DT 21-FEB-2002 (first entry)
XX DE Oligonucleotide SEQ ID NO 61046 for detecting SNP TSC0016265.
XX KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX OS Homo sapiens.
XX PN WO200177384-A2.
XX PD 18-OCT-2001.
XX PF 06-APR-2001; 2001WO-IB00713.
XX PR 07-APR-2000; 2000DE-1019173.
XX PA (EPIG-) EPIGENOMICS AG.
XX PI Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status -
XX Claim 1; SEQ ID 61046; 29pp + Sequence Listing; German.
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX ABI00010-ABI82073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX SQ Sequence 13 BP; 1 A; 7 C; 0 G; 5 T; 0 other;
Query Match 7.9%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 2.5e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1721 GGAGATGGAGA 1731
Db 13 GGAGATGGAGA 3

RESULT 313
ABC82521/c
ID ABC82521 standard; DNA; 13 BP.
XX AC ABC82521;
XX DT 21-FEB-2002 (first entry)
XX DE Oligonucleotide SEQ ID NO 82538 for detecting SNP TSC0020824.
XX KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX OS Homo sapiens.
XX PN WO200177384-A2.
XX PD 18-OCT-2001.
XX PF 06-APR-2001; 2001WO-IB00713.
XX PR 07-APR-2000; 2000DE-1019173.
XX PA (EPIG-) EPIGENOMICS AG.
XX PI Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status -
XX Claim 1; SEQ ID 82537; 29pp + Sequence Listing; German.
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX ABI00010-ABI82073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX SQ Sequence 13 BP; 4 A; 0 C; 5 G; 3 T; 1 other;
Query Match 7.9%; Score 11; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 2.5e+02;
Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1741 AACTCCTCCTAT 1753
Db 13 RACTCCTACCTAT 1

RESULT 313
ABC82521/c
ID ABC82521 standard; DNA; 13 BP.
XX AC ABC82521;
XX DT 21-FEB-2002 (first entry)
XX DE Oligonucleotide SEQ ID NO 82538 for detecting SNP TSC0020824.
XX KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX OS Homo sapiens.
XX PN WO200177384-A2.
XX PD 18-OCT-2001.
XX PF 06-APR-2001; 2001WO-IB00713.
XX PR 07-APR-2000; 2000DE-1019173.
XX PA (EPIG-) EPIGENOMICS AG.
XX PI Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status -
XX Claim 1; SEQ ID 82537; 29pp + Sequence Listing; German.
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX ABI00010-ABI82073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX SQ Sequence 13 BP; 4 A; 0 C; 5 G; 3 T; 1 other;
Query Match 7.9%; Score 11; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 2.5e+02;
Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1741 AACTCCTCCTAT 1753
Db 13 RACTCCTACCTAT 1
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PR 07-APR-2000; 2000DE-1019173.
XX (EPIG-) EPIGENOMICS AG.
PA Olek A, Piepenbrock C, Berlin K;
PI WPI; 2001-657177/75.
DR Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status -
XX Claim 1; SEQ ID 46651; 29pp + Sequence Listing; German.
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX ABT00010-ABT82073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX Sequence 13 BP; 4 A; 0 C; 6 G; 3 T; 0 other;
XX Query Match 7.9%; Score 11; DB 1; Length 13;
XX Best Local Similarity 100.0%; Pred. No. 2.5e+02;
XX Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1741 AACTCCTCCCT 1751
Db 13 AACTCCTCCCT 3
RESULT 309
ABC46635
ID ABC46635 standard; DNA; 13 BP.
XX ABC46635;
XX 21-FEB-2002 (first entry)
XX Oligonucleotide SEQ ID NO 46652 for detecting SNP TSC0013461.
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX Homo sapiens.
XX WO200177384-A2.
XX 18-OCT-2001.
XX 06-APR-2001; 2001WO-IB00713.
XX 07-APR-2000; 2000DE-1019173.
XX (EPIG-) EPIGENOMICS AG.
XX Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status -
XX Claim 1; SEQ ID 46652; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX ABT00010-ABT82073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX Sequence 13 BP; 3 A; 6 C; 0 G; 4 T; 0 other;
XX Query Match 7.9%; Score 11; DB 1; Length 13;
XX Best Local Similarity 100.0%; Pred. No. 2.5e+02;
XX Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1741 AACTCCTCCCT 1751
Db 1 AACTCCTCCCT 11
RESULT 310
ABC61028
ID ABC61028 standard; DNA; 13 BP.
XX ABC61028;
XX 21-FEB-2002 (first entry)
XX Oligonucleotide SEQ ID NO 61045 for detecting SNP TSC0016265.
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX Homo sapiens.
XX WO200177384-A2.
XX 18-OCT-2001.
XX 06-APR-2001; 2001WO-IB00713.
XX 07-APR-2000; 2000DE-1019173.
XX (EPIG-) EPIGENOMICS AG.
XX Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status -
XX Claim 1; SEQ ID 61045; 29pp + Sequence Listing; German.
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX ABT00010-ABT82073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.

PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -

PS Claim 1; SEQ ID 21720; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.

CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABI00010-ABI82073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.

XX SQ Sequence 13 BP; 3 A; 6 C; 0 G; 3 T; 1 other;

Query Match 7.9%; Score 11; DB 1; Length 13;

Best Local Similarity 84.6%; Pred. No. 2.5e+02; Indels 0; Gaps 0;
Matches 11; Conservative 1; Mismatches 1;

QY 1721 GGAGATGGAGATT 1733

Db 13 GGAGTTGGAGATY 1

RESULT 304

ABC33136
ID ABC33136 standard; DNA; 13 BP.

AC ABC33136;

DT 20-FEB-2002 (first entry)

DE Oligonucleotide SEQ ID NO 33153 for detecting SNP TSC0010569.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX OS Homo sapiens.

XX WO200177384-A2.

PD 18-OCT-2001.

XX 06-APR-2001; 2001WO-IB00713.

XX 07-APR-2000; 2000DE-1019173.

XX (EPIG-) EPIGENOMICS AG.

XX Olek A, Piepenbrock C, Berlin K;

XX WPI; 2001-657177/75.

XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -

PS Claim 1; SEQ ID 33153; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.

CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABI00010-ABI82073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.

XX SQ Sequence 13 BP; 6 A; 0 C; 5 G; 2 T; 0 other;

Query Match 7.9%; Score 11; DB 1; Length 13;

Best Local Similarity 100.0%; Pred. No. 2.5e+02; Indels 0; Gaps 0;
Matches 11; Conservative 0; Mismatches 0;

QY 1722 GAGATGGAGAT 1732

Db 2 GAGATGGAGAT 12

RESULT 305

ABC33137/C
ID ABC33137 standard; DNA; 13 BP.

XX AC ABC33137;

DT 20-FEB-2002 (first entry)

DE Oligonucleotide SEQ ID NO 33154 for detecting SNP TSC0010569.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX OS Homo sapiens.

XX WO200177384-A2.

PD 18-OCT-2001.

XX 06-APR-2001; 2001WO-IB00713.

XX 07-APR-2000; 2000DE-1019173.

XX (EPIG-) EPIGENOMICS AG.

XX Olek A, Piepenbrock C, Berlin K;

XX WPI; 2001-657177/75.

XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -

PS Claim 1; SEQ ID 33154; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.

CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and

CC ABI00010-ABI82073 represent the oligomers described in the invention.

CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.

XX SQ Sequence 13 BP; 2 A; 5 C; 0 G; 6 T; 0 other;

Query Match 7.9%; Score 11; DB 1; Length 13;

Best Local Similarity 100.0%; Pred. No. 2.5e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1722 GAGATGGAGAT 1732

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AC AB181002;
XX
XX 22-FEB-2002 (first entry)
XX
XX Oligonucleotide primer SEQ ID NO 380975 for detecting SNP TSC0064086.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
XX (EPIG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status -
XX
XX Claim 1; SEQ ID 380975; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX ABT00010-ABT99989 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX
XX SQ Sequence 12 BP; 4 A; 5 C; 0 G; 3 T; 0 other;
XX
XX Query Match 7.9%; Score 11; DB 1; Length 12;
XX Best Local Similarity 100.0%; Pred.No. 2.2e+02;
XX Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 1724 GATGGAGATTG 1734
XX 12 GATGGAGATTG 2
XX
XX RESULT 302
XX ABC21702
XX ID ABC21702 standard; DNA; 13 BP.
XX
XX AC ABC21702;
XX
XX XX
XX XX 20-FEB-2002 (first entry)
XX
XX Oligonucleotide SEQ ID NO 21719 for detecting SNP TSC0004349.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX PN
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XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
XX (EPIG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status -
XX
XX Claim 1; SEQ ID 21719; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX ABT00010-ABT99989 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX
XX SQ Sequence 13 BP; 3 A; 0 C; 6 G; 3 T; 1 other;
XX
XX Query Match 7.9%; Score 11; DB 1; Length 13;
XX Best Local Similarity 84.6%; Pred.No. 2.5e+02;
XX Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
XX
XX QY 1721 GGAGATGGAGATT 1733
XX 1 GGAGTTGGAGATT 13
XX
XX RESULT 303
XX ABC21703/C
XX ID ABC21703 standard; DNA; 13 BP.
XX
XX AC ABC21703;
XX
XX XX
XX XX 20-FEB-2002 (first entry)
XX
XX Oligonucleotide SEQ ID NO 21720 for detecting SNP TSC0004349.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX PN
XX XX
XX XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
XX (EPIG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX DR
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CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation.
 CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 CC AB100010-AB182073 represent the oligomers described in the invention.
 CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.

XX Sequence 12 BP; 5 A; 0 C; 5 G; 2 T; 0 Other;

Query Match 7.9%; Score 11; DB 1; Length 12;
 Best Local Similarity 100.0%; Pred. No. 2.2e+02;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1747 TCCCTATCCTA 1757
 Db 11 TCCCTATCCTA 1

RESULT 299

ABI68036
 ID ABI68036 standard; DNA; 12 BP.

XX AC ABI68036;

XX DT 22-FEB-2002 (first entry)

XX DE Oligonucleotide primer SEQ ID NO 368009 for detecting SNP TSC0056696.

XX KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 XX central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX OS Homo sapiens.

XX FN WO200177384-A2.

XX PD 18-OCT-2001.

XX PF 06-APR-2001; 2001WO-IB00713.

XX PR 07-APR-2000; 2000DE-1019173.

XX PA (EPIG-) EPIGENOMICS AG.

XX PI Olek A, Piepenbrock C, Berlin K;

XX DR WPI; 2001-657177/75.

XX PT Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single nucleotide polymorphisms and cytosine
 PT methylation status -

XX PS Claim 1; SEQ ID 368009; 29pp + Sequence Listing; German.

XX CC This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation.

XX CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and

XX CC AB100010-AB182073 represent the oligomers described in the invention.

XX CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.

XX SQ Sequence 12 BP; 3 A; 0 C; 5 G; 4 T; 0 Other;

Query Match 7.9%; Score 11; DB 1; Length 12;
 Best Local Similarity 100.0%; Pred. No. 2.2e+02;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1724 GATGGAGATTG 1734

Db 1 GATGGAGATTG 11

RESULT 300

ABI77791/c
 ID ABI77791 standard; DNA; 12 BP.

XX AC ABI77791;

XX DT 22-FEB-2002 (first entry)

XX DE Oligonucleotide primer SEQ ID NO 377764 for detecting SNP TSC007286.

XX KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 XX central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX OS Homo sapiens.

XX FN WO200177384-A2.

XX PD 18-OCT-2001.

XX PF 06-APR-2001; 2001WO-IB00713.

XX PR 07-APR-2000; 2000DE-1019173.

XX PA (EPIG-) EPIGENOMICS AG.

XX PI Olek A, Piepenbrock C, Berlin K;

XX DR WPI; 2001-657177/75.

XX PT Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single nucleotide polymorphisms and cytosine
 PT methylation status -

XX PS Claim 1; SEQ ID 377764; 29pp + Sequence Listing; German.

XX CC This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation.

XX CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and

XX CC AB100010-AB182073 represent the oligomers described in the invention.

XX CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.

XX SQ Sequence 12 BP; 5 A; 5 C; 0 G; 2 T; 0 Other;

Query Match 7.9%; Score 11; DB 1; Length 12;
 Best Local Similarity 100.0%; Pred. No. 2.2e+02;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1704 AGTTGGGTAG 1714

Db 11 AGTTGGGTAG 1

RESULT 301

ABI81002/c
 ID ABI81002 standard; DNA; 12 BP.

XX XX

KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX Homo sapiens.
XX WO200177384-A2.
XX 18-OCT-2001.
XX 06-APR-2001; 2001WO-IB00713.
XX 07-APR-2000; 2000DE-1019173.
XX (EPIG-) EPIGENOMICS AG.
XX Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX Claim 1; SEQ ID 358888; 29pp + Sequence Listing; German.
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABR00010-ABF99989, ABR00010-ABH99989 and
CC ABI00010-ABI82073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 12 BP; 4 A; 0 C; 7 G; 1 T; 0 other;
Query Match 7.9%; Score 11; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1746 CTCCTATCCT 1756
DB 12 CTCCTATCCT 2
RESULT 297
ABI59814
ID ABI59814 standard; DNA; 12 BP.
XX ABI59814;
XX AC
XX DT 22-FEB-2002 (first entry)
XX DE Oligonucleotide primer SEQ ID NO 359787 for detecting SNP TSC0051760.
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX Homo sapiens.
XX WO200177384-A2.
XX PN
XX PD 18-OCT-2001.
XX PF 06-APR-2001; 2001WO-IB00713.
XX PR 07-APR-2000; 2000DE-1019173.
XX (EPIG-) EPIGENOMICS AG.
XX PA

XX Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX Claim 1; SEQ ID 359787; 29pp + Sequence Listing; German.
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABR00010-ABF99989, ABR00010-ABH99989 and
CC ABI00010-ABI82073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 12 BP; 4 A; 0 C; 7 G; 1 T; 0 other;
Query Match 7.9%; Score 11; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1721 GGAGATGGAGA 1731
DB 1 GGAGATGGAGA 11
RESULT 298
ABI65852/C
ID ABI65852 standard; DNA; 12 BP.
XX ABI65852;
XX AC
XX DT 22-FEB-2002 (first entry)
XX DE Oligonucleotide primer SEQ ID NO 365825 for detecting SNP TSC0055375.
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX Homo sapiens.
XX WO200177384-A2.
XX PN
XX PD 18-OCT-2001.
XX PF 06-APR-2001; 2001WO-IB00713.
XX PR 07-APR-2000; 2000DE-1019173.
XX (EPIG-) EPIGENOMICS AG.
XX Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX Claim 1; SEQ ID 365825; 29pp + Sequence Listing; German.
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)

CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.

XX
SQ Sequence 12 BP; 5 A; 0 C; 5 G; 2 T; 0 other;
Query Match 7.9%; Score 11; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1747 TCCTATCCTA 1757

Db 12 TCCTATCCTA 2

RESULT 294

ABI40118
ID ABI40118 standard; DNA; 12 BP.

XX

AC ABI40118;

XX

DT 22-FEB-2002 (first entry)

XX

DE Oligonucleotide primer SEQ ID NO 340091 for detecting SNP TSC0041342.

XX

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX

OS Homo sapiens.

XX

PN WO200177384-A2.

XX

PD 18-OCT-2001.

XX

PF 06-APR-2001; 2001WO-IB00713.

XX

PR 07-APR-2000; 2000DE-1019173.

XX

PA (EPIG-) EPIGENOMICS AG.

XX

PI Olek A, Piepenbrock C, Berlin K;

XX

DR WPI; 2001-657177/75.

XX

XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -

XX

PS Claim 1; SEQ ID 340091; 29pp + Sequence Listing; German.

XX

CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.

CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and

CC ABI00010-ABI82073 represent the oligomers described in the invention.

CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.

XX

SQ Sequence 12 BP; 2 A; 0 C; 7 G; 3 T; 0 other;

Query Match 7.9%; Score 11; DB 1; Length 12;

Best Local Similarity 100.0%; Pred. No. 2.2e+02;

Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1708 GGGTTAGGAGT 1718

Db 1 GGGTTAGGAGT 11

RESULT 295

ABI53626

ID ABI53626 standard; DNA; 12 BP.

XX

AC ABI53626;

XX

DT 22-FEB-2002 (first entry)

XX

DE Oligonucleotide primer SEQ ID NO 353599 for detecting SNP TSC0048610.

XX

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX

OS Homo sapiens.

XX

PN WO200177384-A2.

XX

PD 18-OCT-2001.

XX

PF 06-APR-2001; 2001WO-IB00713.

XX

PR 07-APR-2000; 2000DE-1019173.

XX

PA (EPIG-) EPIGENOMICS AG.

XX

PI Olek A, Piepenbrock C, Berlin K;

XX

DR WPI; 2001-657177/75.

XX

XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -

XX

PS Claim 1; SEQ ID 353599; 29pp + Sequence Listing; German.

XX

CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.

CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and

CC ABI00010-ABI82073 represent the oligomers described in the invention.

CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.

XX

SQ Sequence 12 BP; 3 A; 0 C; 4 G; 5 T; 0 other;

Query Match 7.9%; Score 11; DB 1; Length 12;

Best Local Similarity 100.0%; Pred. No. 2.2e+02;

Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1703 AAGTTGGGTTA 1713

Db 1 AAGTTGGGTTA 11

RESULT 296

ABI58915/C

ID ABI58915 standard; DNA; 12 BP.

XX

AC ABI58915;

XX

DT 22-FEB-2002 (first entry)

XX

DE Oligonucleotide primer SEQ ID NO 358888 for detecting SNP TSC0051363.

XX

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

PF 06-APR-2001; 2001WO-IB00713.
 XX
 PR 07-APR-2000; 2000DE-1019173.
 XX
 PA (EPIG-) EPIGENOMICS AG.
 XX
 PI Olek A, Piepenbrock C, Berlin K;
 XX
 DR WPI; 2001-657177/75.
 XX
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single nucleotide polymorphisms and cytosine
 PT methylation status -
 XX
 PS Claim 1; SEQ ID 301086; 29pp + Sequence Listing; German.
 XX
 CC This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP).
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation.
 CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 CC ABI00010-ABI82073 represent the oligomers described in the invention.
 CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.
 XX
 SQ Sequence 12 BP; 3 A; 6 C; 0 G; 3 T; 0 other;
 XX
 CC Query Match 7.9%; Score 11; DB 1; Length 12;
 CC Best Local Similarity 100.0%; Pred. No. 2.2e+02;
 CC Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 XX
 QY 1737 TCCCAACTCCT 1747
 DB 2 TCCCAACTCCT 12
 XX
 RESULT 292
 ABI08693
 ID ABI08693 standard; DNA; 12 BP.
 XX
 AC ABI08693;
 XX
 DT 22-FEB-2002 (first entry)
 XX
 DE Oligonucleotide primer SEQ ID NO 308666 for detecting SNP TSCC023149.
 XX
 KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX
 OS Homo sapiens.
 XX
 FN WO200177384-A2.
 XX
 PD 18-OCT-2001.
 XX
 PF 06-APR-2001; 2001WO-IB00713.
 XX
 PR 07-APR-2000; 2000DE-1019173.
 XX
 PA (EPIG-) EPIGENOMICS AG.
 XX
 PI Olek A, Piepenbrock C, Berlin K;
 XX
 DR WPI; 2001-657177/75.
 XX
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single nucleotide polymorphisms and cytosine
 PT methylation status -

XX
 PS Claim 1; SEQ ID 308666; 29pp + Sequence Listing; German.
 XX
 CC This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP).
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation.
 CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 CC ABI00010-ABI82073 represent the oligomers described in the invention.
 CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.
 XX
 SQ Sequence 12 BP; 1 A; 7 C; 0 G; 4 T; 0 other;
 XX
 CC Query Match 7.9%; Score 11; DB 1; Length 12;
 CC Best Local Similarity 100.0%; Pred. No. 2.2e+02;
 CC Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 XX
 QY 1746 CTCCTATCCT 1756
 DB 1 CTCCTATCCT 11
 XX
 RESULT 293
 ABI33606/C
 ID ABI33606 standard; DNA; 12 BP.
 XX
 AC ABI33606;
 XX
 DT 22-FEB-2002 (first entry)
 XX
 DE Oligonucleotide primer SEQ ID NO 333579 for detecting SNP TSCC037611.
 XX
 KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX
 OS Homo sapiens.
 XX
 FN WO200177384-A2.
 XX
 PD 18-OCT-2001.
 XX
 PF 06-APR-2001; 2001WO-IB00713.
 XX
 PR 07-APR-2000; 2000DE-1019173.
 XX
 PA (EPIG-) EPIGENOMICS AG.
 XX
 PI Olek A, Piepenbrock C, Berlin K;
 XX
 DR WPI; 2001-657177/75.
 XX
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single nucleotide polymorphisms and cytosine
 PT methylation status -
 XX
 PS Claim 1; SEQ ID 333579; 29pp + Sequence Listing; German.
 XX
 CC This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP).
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation.
 CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 CC ABI00010-ABI82073 represent the oligomers described in the invention.
 CC NOTE: The sequence data for this patent did not form part of the printed

```
QY      1691 GGTGTCCTCTC 1691
Db      |||||
        1 GGTGTCCTCTC 11
        |||||

RESULT 289
ABH74564
ID ABH74564 standard; DNA; 12 BP.
XX
AC ABH74564;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide primer SEQ ID NO 274549 for detecting SNP TSC0003590.
XX
KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB00713.
XX
PR 07-APR-2000; 2000DE-1019173.
XX
PA (EPIG-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
WPI; 2001-657177/75.
XX
Set of oligonucleotides, useful for diagnosis and cell typing, is
designed to detect single nucleotide polymorphisms and cytosine
methylation status -
XX
Claim 1; SEQ ID 274549; 29pp + Sequence Listing; German.
XX
This invention describes novel oligonucleotide primers or peptide nucleic
acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
and cytosine methylation status in chemically pretreated genomic DNA. The
oligonucleotides are used for diagnosis and/or prognosis of cancer and a
range of diseases including immune system, gastrointestinal, respiratory,
central nervous system, cardiovascular and metabolic disorders. The
oligomers are also used for detecting cell type differentiation.
XX
ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABI00010-ABI82073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
specification, but was obtained in electronic format from WIPO at
ftp.wipo.int/pub/published_pct_sequences.
XX
Sequence 12 BP; 2 A; 0 C; 5 G; 5 T; 0 other;
XX
Query Match 7.9%; Score 11; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1704 AGTTGGGTTAG 1714
Db      |||||
        2 AGTTGGGTTAG 12
        |||||

RESULT 290
ABH98049
ID ABH98049 standard; DNA; 12 BP.
XX
AC ABH98049;
XX
DT 22-FEB-2002 (first entry)
XX

Oligonucleotide primer SEQ ID NO 301086 for detecting SNF TSC0019345.
XX
SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
```

The invention relates to in vitro identification (M1) of genes expressed in the skin of humans or animals by subjecting a mixture of genetically encoded factors from skin, to serial analysis of gene expression (SAGE) so as to identify skin-expressed genes and quantify their expression. (M1) is useful for identifying genes involved in skin homeostasis; to

```
KW transplant rejection; psoralen; photo-ultra-violet therapy; ds.
XX Unidentified.
OS
XX
XX
XX WO200179487-A2.
XX
XX PD 25-OCT-2001.
XX
XX PF 18-APR-2001; 2001WO-DE01509.
XX
XX PR 18-APR-2000; 2000DE-1019252.
XX
XX PA (DEGI//) DEGITZ K K.
XX (BESC//) BESC R.
XX
XX PI Degitz KK, Besch R;
XX
XX WPI; 2002-017614/02.
XX
XX Triple-helix forming polydeoxyribonucleotides, useful for treating
PT intracellular adhesion molecule-1 related diseases, e.g. psoriasis, are
PT directed against transcribed or promoter regions of the ICAM-1 gene -
XX
XX Claim 5; Page 4; 61pp; German.
XX
XX This invention describes novel polydeoxyribonucleotides (A), for use as
CC triple-helix forming oligonucleotides, having at least 3 sequential
CC purine and/or pyrimidine bases, capable of inhibiting transcription of
CC ICAM-1. (A) has a sequence specific for the transcribed or promoter
CC regions of the ICAM-1 (intracellular adhesion molecule) gene. The
CC products of the invention have antipsoriatic, dermatological,
CC antiasthmatic, antiinflammatory, immunosuppressive and gastrointestinal
CC activity. (A) are used for treatment or prevention of ICAM-1-associated
CC diseases, specifically psoriasis, neurodermatitis, allergic asthma,
CC Crohn's disease, autoimmune diseases and transplant rejection. Compared
CC with antisense oligonucleotides, (A) provide a longer-lasting effect
CC (they bind directly to the gene, so a compensatory increase in
CC transcription is not possible). (A) may be coupled to psoralen to provide
CC light-regulatable, sequence-specific downregulation of genes; this should
CC make photo-ultra-violet therapy more specific, with reduced side effects.
CC AA168599-AA168673 represent oligonucleotides used to illustrate the
CC method of the invention.
XX
XX Sequence 16 BP; 4 A; 0 C; 11 G; 1 T; 0 other;
SQ
Query Match 8.1%; Score 11.2; DB 1; Length 16;
Best Local Similarity 81.2%; Pred. No. 3.2e+02;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
Qy 1736 CTCCTCACTCTCTCCCT 1751
Db 16 CCCCCACCTTCTCCCT 1
RESULT 285
ABZ65014/c
ID ABZ65014 standard; RNA; 17 BP.
AC
XX ABZ65014;
XX
XX 21-MAR-2003 (first entry)
XX
XX Human HER2 DNzyme substrate #471.
XX
XX Human; ribozyme; short interfering RNA; siRNA; HER2; K-Ras;
KW enzymatic nucleic acid; H-Ras; N-Ras; HIV; cytosolic; anti-HIV;
KW anti-rheumatic; cancer; AIDS; ss.
XX
XX Homo sapiens.
XX
XX WO200297114-A2.
XX
XX 05-DEC-2002.
XX
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transplant rejection; psoralen; photo-ultra-violet therapy; ds.
Unidentified.
WO200179487-A2.
25-OCT-2001.
18-APR-2001; 2001WO-DE01509.
18-APR-2000; 2000DE-1019252.
(DEGI//) DEGITZ K K.
(BESC//) BESC R.
Degitz KK, Besch R;
WPI; 2002-017614/02.
Triple-helix forming polydeoxyribonucleotides, useful for treating
intracellular adhesion molecule-1 related diseases, e.g. psoriasis, are
directed against transcribed or promoter regions of the ICAM-1 gene -
Claim 5; Page 4; 61pp; German.
This invention describes novel polydeoxyribonucleotides (A), for use as
triple-helix forming oligonucleotides, having at least 3 sequential
purine and/or pyrimidine bases, capable of inhibiting transcription of
ICAM-1. (A) has a sequence specific for the transcribed or promoter
regions of the ICAM-1 (intracellular adhesion molecule) gene. The
products of the invention have antipsoriatic, dermatological,
antiasthmatic, antiinflammatory, immunosuppressive and gastrointestinal
activity. (A) are used for treatment or prevention of ICAM-1-associated
diseases, specifically psoriasis, neurodermatitis, allergic asthma,
Crohn's disease, autoimmune diseases and transplant rejection. Compared
with antisense oligonucleotides, (A) provide a longer-lasting effect
(they bind directly to the gene, so a compensatory increase in
transcription is not possible). (A) may be coupled to psoralen to provide
light-regulatable, sequence-specific downregulation of genes; this should
make photo-ultra-violet therapy more specific, with reduced side effects.
AA168599-AA168673 represent oligonucleotides used to illustrate the
method of the invention.
Sequence 16 BP; 4 A; 0 C; 11 G; 1 T; 0 other;
SQ
Query Match 8.1%; Score 11.2; DB 1; Length 16;
Best Local Similarity 81.2%; Pred. No. 3.2e+02;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
Qy 1736 CTCCTCACTCTCTCCCT 1751
Db 16 CCCCCACCTTCTCCCT 1
RESULT 285
ABZ65014/c
ID ABZ65014 standard; RNA; 17 BP.
AC
XX ABZ65014;
XX
XX 21-MAR-2003 (first entry)
XX
XX Human HER2 DNzyme substrate #471.
XX
XX Human; ribozyme; short interfering RNA; siRNA; HER2; K-Ras;
KW enzymatic nucleic acid; H-Ras; N-Ras; HIV; cytosolic; anti-HIV;
KW anti-rheumatic; cancer; AIDS; ss.
XX
XX Homo sapiens.
XX
XX WO200297114-A2.
XX
XX 05-DEC-2002.
XX
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29-MAY-2002; 2002WO-US16840.
29-MAY-2001; 2001US-294140P.
06-JUN-2001; 2001US-296249P.
10-SEP-2001; 2001US-318471P.
XX
XX (RIBO-) RIBOZYME PHARM INC.
XX
XX Mcswiggen J;
XX
XX WPI; 2003-140484/13.
XX
XX Novel short interfering RNA and enzymatic nucleic acid useful for
PT treating cancer, modulates the expression of a nucleic acid encoding
PT HER2, K-Ras, H-Ras, N-Ras, and human deficiency virus sequences -
XX
XX Claim 4; Page 142; 185pp; English.
XX
XX The invention relates to a novel short interfering RNA (siRNA) nucleic
CC acid molecule or an enzymatic nucleic acid molecule, that modulates
CC expression of a nucleic acid molecule encoding HER2, K-Ras, H-Ras, N-Ras,
CC human immunodeficiency virus (HIV) or a component of HIV. The nucleic
CC acid molecule of the invention has cytostatic, anti-HIV, and
CC anti-rheumatic activity. The nucleic acid molecules are useful for
CC reducing HER2, K-Ras, H-Ras, and HIV activity in a cell. The nucleic
CC acids are also useful for treating breast, ovarian, colorectal, lung,
CC prostate, bladder, or pancreatic cancer, and HIV infection, and AIDS.
CC The sequences shown in ABZ59889 - ABZ62216, ABZ64544 - ABZ65531,
CC ABZ66520 - ABZ66524, ABZ66530 - ABZ66585 represent substrate/target
CC sequences for the human ribozymes of the invention.
XX
XX Sequence 17 BP; 3 A; 9 C; 1 G; 4 U; 0 other;
SQ
Query Match 8.1%; Score 11.2; DB 1; Length 17;
Best Local Similarity 81.2%; Pred. No. 3.5e+02;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
Qy 1636 GGGCTTGTAGCAGAAG 1651
Db 16 GGGCATGTAGGAGAG 1
RESULT 286
AAA92575/c
ID AAA92575 standard; DNA; 18 BP.
AC
XX AAA92575;
XX
XX 04-JAN-2001 (first entry)
XX
XX Antisense oligonucleotide ISIS# 30285.
XX
XX Human; SRA; steroid receptor RNA activator; cytosolic; antiinflammatory;
KW SRA inhibitor; cancer; infection; antisense oligonucleotide; ss.
XX
XX Synthetic.
XX
XX US6107092-A.
XX
XX 22-AUG-2000.
XX
XX 29-MAR-1999; 99US-0280409.
XX
XX 29-MAR-1999; 99US-0280409.
XX
XX (ISIS-) ISIS PHARM INC.
XX (BAYU ) BAYLOR COLLEGE MEDICINE.
XX
XX Cowsett LM, Bennett CF, O'Malley BW;
XX
XX WPI; 2000-586211/55.
XX
```

AA556873
ID AAS56873 standard; DNA; 16 BP.
XX AC AAS56873;
XX AC AAS56873;
DT 16-JAN-2002 (first entry)
XX Validation ribozyme DNA sequence #47.
DE Human: BRCA-1 regulator; ribozyme; BR1; RNA target recognition; probe;
KW cytosolic; RNA cleavage; tumour suppressor; PCR primer; CHL2; AF6; BR2;
KW inhibitor dominant negative 4; breast basic conserved protein 1; BRC1;
KW BR3; ID4; cancer; proliferative disorder; tumour proliferation; ss.
XX Homo sapiens.
XX WO200170982-A2.
PN De Smet K, Stuyver L;
XX 27-SEP-2001.
PD 23-MAR-2001; 2001WO-US09559.
XX 23-MAR-2000; 2000US-0536058.
PR (IMMU-) IMMUSOL INC.
XX (BEGE/) BEGER C.
PA Beger C, Barber J, Wong-staal F;
PI WPI; 2001-611503/70.
XX Novel polypeptides that are the regulators of BRCA-1, useful for
PT treating cancer and diagnosing the presence of neoplastic cells in
PT biological sample -
XX Disclosure; Fig 8; 97pp; English.
PS Sequences AAS56729-AAS56968 represent DNA encoding BRCA-1 regulators,
CC ribozyme target recognition RNA sequences, DNA fragments encoding the RNA
CC and primers used in the methods of the invention. Hybridisation of
CC ribozymes to their targets results in cleavage of the RNA target. The
CC ribozymes can be used to cleave regulators of the tumour suppressor
CC BRCA-1, resulting in upregulation or downregulation of BRCA-1 in a cell.
CC The mRNA targets include those encoding the BRCA-1 regulator BR1,
CC inhibitor dominant negative 4 (ID4), breast basic conserved protein 1
CC (BB1), CHL2, AF6, BR2 and BR3. Regulation of BRCA-1 is useful for
CC treating and diagnosing cancer and other proliferative disorders. The
CC severity of an incidence of cancer can be lessened by regulating tumour
CC proliferation through modulation of BRCA-1 expression. The sequences of
CC the invention are useful in the development of anti-cancer drugs.
XX
SQ Sequence 16 BP; 3 A; 5 C; 3 G; 5 T; 0 other;
XX
Query Match 8.1%; Score 11.2; DB 1; Length 16;
Best Local Similarity 81.2%; Pred. No. 3.2e+02;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 1679 CTGGTGTCTCTCCAC 1694
DB 1 CTGGTGTCTACTACAG 16
RESULT 283
ABZ34019/c
ID ABZ34019 standard; DNA; 16 BP.
XX AC ABZ34019;
XX ABZ34019;
DT 31-JAN-2003 (first entry)
XX
DE HIV-1 reverse transcriptase mutation detection probe SEQ ID NO:261.
KW Human immunodeficiency virus; HIV; reverse transcriptase; RT; enzyme;
detection; mutation; anti-HIV drug resistance; polymorphism; resistance;
probe; ss.
XX Human immunodeficiency virus type 1.
OS Synthetic.
XX WO200255741-A2.
PN 18-JUL-2002.
PD 09-JAN-2002; 2002WO-EP00153.
XX 11-JAN-2001; 2001EP-0870005.
PR 20-APR-2001; 2001EP-0870005.
XX 24-APR-2001; 2001US-286102P.
XX (INNO-) INNOGENETICS NV.
PA De Smet K, Stuyver L;
XX WPI; 2002-590680/63.
DR Detecting mutations associated with anti-HIV drug resistance comprises
PT detecting at least one of the mutations in the HIV reverse
PT transcriptase gene by using probes optimized to function together in a
PT reverse-hybridization assay -
XX Claim 2; Page 19; 117pp; English.
PS The present invention describes a method for detecting mutations
XX associated with anti-HIV drug resistance in a patient by detecting at
XX least one of the mutations K103N/R, V106A/I/L, Y181C/I, M184V/I, Y188L,
XX G190A/S/R, T215Y/F/D/S/A and/or Q151M/L in the reverse transcriptase (RT)
XX of HIV strains in a biological sample using a specific set of probes
XX optimised to function together in a reverse-hybridisation assay. The
XX method and the nucleic acid sequences used in the method are useful for
XX determining viral mutations and/or polymorphisms in the HIV RT gene
XX associated with resistance. The probes are useful for the genetic
XX detection, preferably in vitro detection of the mutations K103N/R,
XX V106A/I/L, Y181C/I, Q151M/L, M184V/I, Y188L, G190A/S/R and/or
XX T215Y/F/D/S/A in the RT of HIV strains in a biological sample, where
XX the mutation is associated with anti-HIV drug resistance. The method
XX provides a rapid, reliable and precise assay or determination and
XX monitoring of antiviral drug resistance or mutations associated with
XX drug resistance of viruses containing RT genes. ABZ33759 to ABZ34642
XX represent HIV RT sequences and probes which are used in the
XX exemplification of the present invention.
SQ Sequence 16 BP; 5 A; 4 C; 4 G; 3 T; 0 other;
XX
Query Match 8.1%; Score 11.2; DB 1; Length 16;
Best Local Similarity 81.2%; Pred. No. 3.2e+02;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 1690 TCCAGCGTGTGGAG 1705
DB 16 TCCATCCTGTGGAG 1
RESULT 284
AAI68609/c
ID AAI68609 standard; DNA; 16 BP.
XX AC AAI68609;
XX AAI68609;
DT 14-JAN-2002 (first entry)
XX
DE ICAM-1 triple helix associated oligonucleotide SEQ ID 11.
XX
KW ICAM-1; triple helix; transcription inhibition; antiproliferative;
KW intracellular adhesion molecule; dermatological; antiasthmatic;
KW antiinflammatory; immunosuppressive; gastrointestinal; psoriasis;
KW neurodermatitis; allergic asthma; Crohn's disease; autoimmune disease;

DT	26-MAY-1994	(first entry)
XX		
DE		Cytomegalovirus target sequence 36.
XX		
KW	RNA; enzyme; enzymatic RNA molecule; ERM; cleave; RNA; mRNA; HcRNA; HcNA; Picornavirus; HIV; immunodeficiency virus; hepatitis B virus; HBV; Papilloma virus; HPV; Epstein-Barr virus; EBV; T-cell leukemia virus; hepatitis C virus; HCV; cytomegalovirus; influenza virus; HSV; herpes simplex virus; vector; immune response; antibody; ribozyme; viral RNA; treatment; ss.	
XX		
OS	Synthetic.	
XX		
PN	W09323569-Al.	
XX		
PD	25-NOV-1993.	
XX		
PF	29-APR-1993; 93WO-US04020.	
XX		
PR	11-MAY-1992; 92US-0882689.	
PR	14-MAY-1992; 92US-0882712.	
PR	14-MAY-1992; 92US-0882713.	
PR	14-MAY-1992; 92US-0882714.	
PR	14-MAY-1992; 92US-0882823.	
PR	14-MAY-1992; 92US-0882824.	
PR	14-MAY-1992; 92US-0882866.	
PR	14-MAY-1992; 92US-0882888.	
PR	14-MAY-1992; 92US-0882889.	
PR	14-MAY-1992; 92US-0882921.	
PR	14-MAY-1992; 92US-0882922.	
PR	14-MAY-1992; 92US-0883823.	
PR	14-MAY-1992; 92US-0883849.	
PR	14-MAY-1992; 92US-0884073.	
PR	14-MAY-1992; 92US-0884074.	
PR	14-MAY-1992; 92US-0884333.	
PR	14-MAY-1992; 92US-0884422.	
PR	14-MAY-1992; 92US-0884431.	
PR	14-MAY-1992; 92US-0884436.	
PR	14-MAY-1992; 92US-0884521.	
PR	31-JUL-1992; 92US-0923738.	
PR	26-AUG-1992; 92US-0935854.	
PR	26-AUG-1992; 92US-0936086.	
PR	18-SEP-1992; 92US-0948359.	
PR	15-OCT-1992; 92US-0963322.	
PR	07-DEC-1992; 92US-0981129.	
PR	07-DEC-1992; 92US-0987130.	
PR	07-DEC-1992; 92US-0987133.	
XX		
PA	(RIBO-) RIBOZYME PHARM INC.	
XX		
PI	Draper KG, Dudycz LW, Mcswiggen JA, Macejak DG, Holecsek JU; Mamone JA;	
XX		
XX	WPI; 1993-386599/48.	
XX		
DR	Enzymatic RNA molecules - used to inhibit viral replication, infection and gene expression	
PT		
XX		
PS	Claim 5; Fig 13; 287pp; English.	
XX		
CC	The sequences (AAQ52824-Q52890) are pref. Cytomegalovirus target sequences for enzymatic RNA molecules. The RNA molecules are complementary to a substrate binding region in the specified gene target. They also have enzymatic activity, in that they specifically cleave RNA in the target. The ERMs interfere with viral replication therefore have anti-viral properties. They can be used to attenuate viruses to be used in vaccines.	
CC	(Updated on 25-MAR-2003 to correct PN field.)	
CC	(Updated on 25-MAR-2003 to correct PR field.)	
CC	(Updated on 25-MAR-2003 to correct PI field.)	
XX		
SQ	Sequence 16 BP; 2 A; 6 C; 5 G; 3 U; 0 other;	

PT react with restriction fragments

PS Example; Page 13; 46pp; French.

XX The sequence is that of a polynucleotide probe which may be used in
CC the detection of new hypervariable regions (HVR) in a DNA sequence.
CC HVR represent a fingerprint useful in e.g. forensic science,
CC paternity testing, animal breeding, etc. The probe may be used as
CC part of a method for the efficient detection in humans or other
CC animals, without the use of mini-satellites or primary enrichment.
CC (Updated on 25-MAR-2003 to correct PN field.)

XX Sequence 16 BP; 5 A; 4 C; 6 G; 1 T; 0 other;

Query Match 8.2%; Score 11.4; DB 1; Length 16;

Best Local Similarity 92.3%; Pred. No. 2.9e+02; Indels 0; Gaps 0;
Matches 12; Conservative 0; Mismatches 1;

QY 1655 AGCACCAGGCTCA 1667

DB 1 AGACCCAGGCTCA 13

RESULT 278

AAQ29793/C
ID AAQ29793 standard; DNA; 16 BP.

AC AAQ29793;

XX 25-MAR-2003 (updated)

DT 19-MAR-1993 (first entry)

XX A allele probe VP50.

DE G-gamma globulin; GGG; polymorphism; HindIII; A allele; B; C;

XX genotype; paternity; forensic; ss.

KW Synthetic.

OS EP512342-A2.

XX 11-NOV-1992.

XX 25-APR-1992; 92EP-0107084.

XX 07-MAY-1991; 91US-0696793.

XX (HOFF) HOFFMANN LA ROCHE & CO AG F.

XX Nasarabadi SL, Saiki RK;

XX WPI; 1992-374679/46.

XX Determn. of an individuals genotype at the gamma-globin locus -
PT using sequence-specific oligo-nucleotide probes corresp. to 3
alleles

XX Disclosure; Page 14; 29pp; English.

XX The sequences given in AAQ29787-816 are probes which were used within
CC the method of the invention for detecting the presence of a variant
CC sequence in the G-gamma globulin (GGG) locus. The A, B and C
CC alleles can be distinguished from one another by the polymorphic
CC sequence corresponding to the HindIII site of the A allele. The
CC sequences of the three alleles are given in AAQ29842-44. The methods
CC for determining an individuals genotype at the GGG locus with
CC respect to a set of alleles improves the discriminatory power of GGG
CC typing methodology compared to previous methods using two alleles.
CC (Updated on 25-MAR-2003 to correct PN field.)

XX Sequence 16 BP; 5 A; 8 C; 1 G; 2 T; 0 other;

Query Match 8.1%; Score 11.2; DB 1; Length 16;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

PS Disclosure; Page 14; 29pp; English.

XX The sequences given in AAQ29787-816 are probes which were used within
CC the method of the invention for detecting the presence of a variant
CC sequence in the G-gamma globulin (GGG) locus. The A, B and C
CC alleles can be distinguished from one another by the polymorphic
CC sequence corresponding to the HindIII site of the A allele. The
CC sequences of the three alleles are given in AAQ29842-44. The methods
CC for determining an individuals genotype at the GGG locus with
CC respect to a set of alleles improves the discriminatory power of GGG
CC typing methodology compared to previous methods using two alleles.
CC (Updated on 25-MAR-2003 to correct PN field.)

XX Sequence 16 BP; 5 A; 8 C; 1 G; 2 T; 0 other;

Query Match 8.1%; Score 11.2; DB 1; Length 16;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

PS Disclosure; Page 15; 29pp; English.

XX The sequences given in AAQ29787-816 are probes which were used within
CC the method of the invention for detecting the presence of a variant
CC sequence in the G-gamma globulin (GGG) locus. The A, B and C
CC alleles can be distinguished from one another by the polymorphic
CC sequence corresponding to the HindIII site of the A allele. The
CC sequences of the three alleles are given in AAQ29842-44. The methods
CC for determining an individuals genotype at the GGG locus with
CC respect to a set of alleles improves the discriminatory power of GGG
CC typing methodology compared to previous methods using two alleles.
CC (Updated on 25-MAR-2003 to correct PN field.)

XX Sequence 16 BP; 4 A; 8 C; 1 G; 3 T; 0 other;

Query Match 8.1%; Score 11.2; DB 1; Length 16;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Best Local Similarity 81.2%; Pred. No. 3.2e+02; Indels 0; Gaps 0;
Matches 13; Conservative 0; Mismatches 3;

QY 1670 GCTGGAACCTGGTGT 1685

DB 16 GGTGGAAGCTGGTGT 1

RESULT 279

AAQ29795/C

ID AAQ29795 standard; DNA; 16 BP.

XX AAQ29795;

AC AAQ29795;

XX 25-MAR-2003 (updated)

DT 19-MAR-1993 (first entry)

XX A allele probe VP52.

DE G-gamma globulin; GGG; polymorphism; HindIII; A allele; B; C;

XX genotype; paternity; forensic; ss.

KW Synthetic.

OS EP512342-A2.

XX 11-NOV-1992.

XX 25-APR-1992; 92EP-0107084.

XX 07-MAY-1991; 91US-0696793.

XX (HOFF) HOFFMANN LA ROCHE & CO AG F.

XX Nasarabadi SL, Saiki RK;

XX WPI; 1992-374679/46.

XX Determn. of an individuals genotype at the gamma-globin locus -
PT using sequence-specific oligo-nucleotide probes corresp. to 3
alleles

XX Disclosure; Page 15; 29pp; English.

XX The sequences given in AAQ29787-816 are probes which were used within
CC the method of the invention for detecting the presence of a variant
CC sequence in the G-gamma globulin (GGG) locus. The A, B and C
CC alleles can be distinguished from one another by the polymorphic
CC sequence corresponding to the HindIII site of the A allele. The
CC sequences of the three alleles are given in AAQ29842-44. The methods
CC for determining an individuals genotype at the GGG locus with
CC respect to a set of alleles improves the discriminatory power of GGG
CC typing methodology compared to previous methods using two alleles.
CC (Updated on 25-MAR-2003 to correct PN field.)

XX Sequence 16 BP; 4 A; 8 C; 1 G; 3 T; 0 other;

Query Match 8.1%; Score 11.2; DB 1; Length 16;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1669 AGCTGGAACCTGGTGT 1684

DB 16 AGGTGGAAGCTTGGT 1

RESULT 280

AAQ52859

ID AAQ52859 standard; RNA; 16 BP.

XX AAQ52859;

AC AAQ52859;

XX 25-MAR-2003 (updated)

KW gynaecological; cytostatic; hormonal; target validation; gene therapy;
 KW drug screening; lead compound; allele-specific oligonucleotide; ASO;
 KW primer; ss.
 OS Homo sapiens.
 XX WO200294850-A2.
 PN
 XX 28-NOV-2002.
 PD
 XX
 XX 01-NOV-2001; 2001WO-US50630.
 PF
 XX 18-MAY-2001; 2001US-0016353.
 PR
 XX (GENA-) GENAISSANCE PHARM INC.
 PA
 XX Duda A, Kliehm SE, Nandabalan K, Sausker EA;
 PI WPI; 2003-148454/14.
 DR
 XX New gonadotropin-releasing hormone 2 (GNRH2) polypeptide encoded by
 XX genetic variants having polymorphisms in the GNRH2 gene, for studying
 PT the function of, and treating disorders, such as, reproductive
 PT disorders -
 XX
 XX Claim 14; Column 13; 33pp; English.
 PS
 XX The invention relates to gonadotropin-releasing hormone 2 (GNRH2) and
 XX its nucleic acid sequence. Polymorphic variants of the GNRH2 gene are
 CC useful in studying the expression and function of GNRH2, and in
 CC expressing GNRH2 proteins for use in screening candidate drugs for
 CC treating diseases associated with GNRH2 activity, such as reproductive
 CC disorders. Polynucleotides comprising a polymorphic gene variant or
 CC fragment may be used for therapeutic purposes, where a patient could
 CC benefit from expression or increased expression of a particular GNRH2
 CC protein isoform, or an expression vector encoding the isoform may be
 CC administered to the patient. Haplotype information is useful in
 CC improving the efficiency and output of several steps in a drug discovery
 CC and development process, including target validation, identifying lead
 CC compounds, and early phase clinical trials. GNRH2 gene is used in gene
 CC therapy. The present sequence is an allele-specific oligonucleotide
 CC (ASO) primer used for detecting human GNRH2 gene polymorphisms.
 XX
 XX Sequence 15 BP; 2 A; 9 C; 0 G; 3 T; 1 other;
 SQ
 Query Match 8.2%; Score 11.4; DB 1; Length 15;
 Best Local Similarity 80.0%; Pred. No. 2.6e+02;
 Matches 12; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
 QY 1744 TCCTCCCTATCCTAA 1758
 Db 1 TCCTCCCTACCCCA 15
 |||||
 RESULT 276
 AAQ29804/c
 ID AAQ29804 standard; DNA; 16 BP.
 XX
 AC AAQ29804;
 XX
 XX 25-MAR-2003 (updated)
 DT 19-MAR-1993 (first entry)
 XX
 XX B allele probe SN26.
 DE
 XX G-gamma globulin; GGG; polymorphism; HindIII; A allele; B; C;
 KW genotype; paternity; forensic; ss.
 KW
 XX Synthetic.
 OS
 XX
 XX EP512342-A2.
 PN
 XX 11-NOV-1992.
 PD

XX 25-APR-1992; 92EP-0107084.
 PF
 XX 07-MAY-1991; 91US-0696793.
 PR
 XX (HOFF) HOFFMANN LA ROCHE & CO AG F.
 XX Nasarabadi SL, Saiki RK;
 PI WPI; 1992-374679/46.
 DR
 XX Determn. of an individuals genotype at the gamma-globin locus -
 PT using sequence-specific oligo-nucleotide probes corresp. to 3
 PT alleles
 XX
 XX Disclosure; Page 17; 29pp; English.
 PS
 XX The sequences given in AAQ29787-816 are probes which were used within
 CC the method of the invention for detecting the presence of a variant
 CC sequence in the G-gamma globulin (GGG) locus. The A, B and C
 CC alleles can be distinguished from one another by the polymorphic
 CC sequences corresponding to the HindIII site of the A allele. The
 CC sequences of the three alleles are given in AAQ29842-44. The methods
 CC for determining an individuals genotype at the GGG locus with
 CC respect to a set of alleles improves the discriminatory power of GGG
 CC typing methodology compared to previous methods using two alleles.
 CC (Updated on 25-MAR-2003 to correct PN field.)
 XX
 XX Sequence 16 BP; 4 A; 9 C; 1 G; 2 T; 0 other;
 SQ
 Query Match 8.2%; Score 11.4; DB 1; Length 16;
 Best Local Similarity 92.3%; Pred. No. 2.9e+02;
 Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1599 GTGGAAGTTGGGT 1711
 Db 16 GTGGAAGTTGGGT 4
 |||||
 RESULT 277
 AAQ40622
 ID AAQ40622 standard; DNA; 16 BP.
 XX
 AC AAQ40622;
 XX
 XX 25-MAR-2003 (updated)
 DT 10-AUG-1993 (first entry)
 XX
 XX Hypervariable region detection probe 16C17.
 DE
 XX HVR; human; animal; forensic science; paternity testing; diagnosis;
 KW animal breeding; hereditary diseases; tumors; allele; loss;
 KW chromosomal regions; tumour region identification; ss.
 XX
 OS Synthetic.
 XX
 XX FR2680520-A1.
 PN
 XX 26-FEB-1993.
 PD
 XX 22-AUG-1991; 91FR-0010516.
 PF
 XX 22-AUG-1991; 91FR-0010516.
 PR
 XX (ETPR) ETAT FRANCAIS.
 PA
 XX Vergnaud G;
 PI
 XX WPI; 1993-136548/17.
 DR
 XX Detecting the hypervariable regions of DNA for diagnosing
 PT hereditary illnesses and tumours - by hybridising labelled
 PT polynucleotides and analysing genomic DNA of individuals which

SQ Sequence 15 BP; 1 A; 5 C; 7 G; 1 T; 1 other;
 Query Match 8.2%; Score 11.4; DB 1; Length 15;
 Best Local Similarity 80.0%; Pred. No. 2.6e+02;
 Matches 12; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1660 CAGGCTCACAGCTGG 1674
 :||||| |||||
 Db 15 CRGGCTCCAGCCGG 1

RESULT 271
 ABL01115/c
 ID ABL01115 standard; DNA; 15 BP.
 AC ABL01115;
 DT 12-MAR-2002 (first entry)
 DE Human AKR1B1 gene polymorphism detection ASO probe SEQ ID NO:12.
 KW Human; aldo-keto reductase family 1 member B1; aldose reductase; ss;
 KW AKR1B1; chromosome 7q35; detection; polymorphism; ASO; probe; primer;
 KW allele-specific oligonucleotide; antidiabetic; gene therapy; diabetes.
 OS Homo sapiens.
 PN WO200179223-A2.
 PD 25-OCT-2001.
 PF 12-APR-2001; 2001WO-US11944.
 PR 12-APR-2000; 2000US-196315P.
 PA (GENA-) GENAISSANCE PHARM INC.
 PI Choi JY, Nandabalan K, Rounds E, Sarchis A;
 DR WPI; 2002-075056/10.
 XX Novel polymorphic variants of aldo-keto reductase family 1, member b1
 PT gene useful in studying expression and function of the protein, useful
 FT for screening drugs to treat diseases e.g. diabetes -
 PS Claim 16; Page 14; 103pp; English.
 CC The present invention describes an isolated polynucleotide (I)
 CC comprising a sequence which is a polymorphic variant (PV) of a
 CC reference sequence for aldo-keto reductase family 1, member B1 (AKR1B1)
 CC gene or its fragment, having the 2214 base pair sequence given in
 CC ABL01105. AKR1B1 has antidiabetic activity and can be used in gene
 CC therapy. AKR1B1 can be used in the treatment of diabetes. The human
 CC AKR1B1 gene is located on chromosome 7q35. ABL01107 to ABL01129
 CC represent allele-specific oligonucleotide (ASO) probes used in the
 CC detection of polymorphisms in the human AKR1B1 gene; ABL01130 to
 CC ABL01175 represent ASO primers used in the detection of polymorphisms
 CC in the human AKR1B1 gene; and ABL01176 to ABL01221 represent preferred
 CC primers used in the detection of polymorphisms in the human AKR1B1 gene.
 SQ Sequence 15 BP; 3 A; 3 C; 5 G; 3 T; 1 other;
 Query Match 8.2%; Score 11.4; DB 1; Length 15;
 Best Local Similarity 80.0%; Pred. No. 2.6e+02;
 Matches 12; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1662 GGCTCACAGCTGGA 1676
 :||||| :|||||
 Db 15 GGCTCACACCTGTAA 1

RESULT 272
 AAD25425
 ID AAD25425 standard; DNA; 15 BP.
 AC AAD25425;
 DT 12-MAR-2002 (first entry)
 DE Human GNRH2 gene polymorphism detecting ASO primer #12.
 KW Human; gonadotropin-releasing hormone 2; GNRH2 gene; haplotyping;
 KW genotyping; gene therapy; reproductive disorder; polymorphism;
 KW allele specific oligonucleotide; ASO; primer; ss.
 OS Homo sapiens.
 PN WO200187910-A2.
 PD 22-NOV-2001.
 PF 18-MAY-2001; 2001WO-US16353.
 PR 18-MAY-2000; 2000US-205187P.
 PA (GENA-) GENAISSANCE PHARM INC.
 PI Duda A, Kliem SE, Nandabalan K, Sausker EA;
 DR WPI; 2002-055683/07.
 XX New genetic variants of gonadotropin-releasing hormone 2 isogene,
 PT useful in studying expression and function of protein and for screening
 FT drugs to treat diseases e.g. reproduction disorders -
 PS Claim 16; Page 13; 64pp; English.
 CC The invention relates to genetic variants of human gonadotropin-
 CC releasing hormone 2 (GNRH2) gene. The invention also relates to
 CC compositions and methods for haplotyping and/or genotyping the GNRH2
 CC gene in an individual. Polynucleotides of the invention are useful
 CC for studying the expression and function of GNRH2 and in expressing
 CC GNRH2 proteins for use in screening candidate drugs to treat diseases
 CC related to GNRH2 activity. They are also used in gene therapy. The
 CC methods of the invention are useful in determining whether an
 CC individual has a haplotype or haplotype pairs. The haplotyping method
 CC is useful for improving the efficiency and reliability of several
 CC steps in the discovery and development of drugs for treating diseases
 CC associated with GNRH2 activity, e.g., reproductive disorders. The
 CC present sequence is an allele specific oligonucleotide (ASO) primer
 CC used for detecting human GNRH2 gene polymorphisms.
 SQ Sequence 15 BP; 2 A; 9 C; 0 G; 3 T; 1 other;
 Query Match 8.2%; Score 11.4; DB 1; Length 15;
 Best Local Similarity 80.0%; Pred. No. 2.6e+02;
 Matches 12; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1744 TCCCTCCCTATCCTAA 1758
 :||||| :|||
 Db 1 TCCCTCCCTACCCCA 15

RESULT 273
 AAS16721/c
 ID AAS16721 standard; DNA; 15 BP.
 AC AAS16721;
 DT 14-FEB-2002 (first entry)
 DE Human APOA4 allele specific oligonucleotide, ASO, probe #4.
 KW Human; ss; APOA4; apolipoprotein A-IV; antiatherosclerotic; cardiant;
 KW haplotype; chromosome 11q23-qter; coronary heart disease; obesity;
 KW atherosclerosis; probe.

XX Novel isolated human period Drosophila homolog 1 polynucleotide, useful
PT for therapeutic purposes, for studying the expression and function of
PT the polynucleotide, and for expressing the homolog
XX
PS Claim 17; Page 14; 162pp; English.
XX
CC The present invention describes an isolated human period (Drosophila)
CC homologue 1, (PER1) polynucleotide (I) comprising a sequence which is a
CC polymorphic variant for a reference sequence (AB152077) for the PER1 gene
CC or its fragment, or a polymorphic variant of a reference sequence
CC (AB152078) for a PER1 cDNA or its fragment. The present invention also
CC describes methods for genotyping and haplotyping the PER1 gene of an
CC individual. (I) is useful in studying the expression and function of
CC PER1, and in expressing PER1 protein for use in screening for candidate
CC drugs to treat diseases related to PER1 activity. (I) is useful for
CC therapeutic purposes. A recombinant non-human organism transformed or
CC transfected with (I) can be used for studying expression of the PER1
CC isogenes in vivo, for in vivo screening and testing of drugs targeted
CC against PER1 protein, and for testing the efficacy of therapeutic agents
CC and compounds for disorders associated with circadian rhythm regulation.
CC The present sequence represents an allele specific oligonucleotide probe
CC for human PER1, which is used in the exemplification of the present
CC invention.
XX
SQ Sequence 15 BP; 2 A; 3 C; 9 G; 0 U; 1 other;
Query Match 8.2%; Score 11.4; DB 1; Length 15;
Best Local Similarity 80.0%; Pred. No. 2.6e+02;
Matches 12; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
QY 1734 GGCTCCCACTCTCTC 1748
DB 15 GGCTCCCGTCTCCC 1
RESULT 269
ABK12736/c
ID ABK12736 standard; DNA; 15 BP.
XX
AC ABK12736;
XX
XX 18-JUN-2002 (first entry)
DE ASO probe #1, used to detect human IFNG gene polymorphisms.
XX Human; interferon-gamma; IFNG; polymorphic variant; isogene; ss;
XX type I diabetes; multiple sclerosis; asthma; immune-related disorder;
KW haplotyping; single nucleotide polymorphism; SNP; probe; ASO;
KW allele-specific oligonucleotide.
XX
OS Homo sapiens.
XX
PN WO200216631-A1.
XX
XX 28-FEB-2002.
PD
XX 27-AUG-2001; 2001WO-US26678.
PF
XX 25-AUG-2000; 2000US-227842P.
PR
XX (GENA-) GENAISSANCE PHARM INC.
PA
XX Chew A, Denton RR, Finkel K, Nandabalan K;
PI WPI; 2002-280945/32.
XX
DR Novel isolated human interferon-gamma polynucleotide, useful for
XX therapeutic purposes, for studying the expression and function of the
PT polynucleotide, and for expressing the interferon-gamma protein
XX
XX Claim 16; Page 13; 58pp; English.
PS
XX

CC The present invention relates to a new human interferon-gamma (IFNG)
CC polynucleotide comprising a sequence which is a polymorphic variant for
CC a reference sequence for the IFNG gene or its fragment. The invention is
CC useful in studying the expression and function of IFNG and in expressing
CC IFNG protein for use in screening for candidate drugs to treat diseases
CC related to IFNG activity. The polynucleotide of the invention is useful
CC for therapeutic purposes. The polynucleotide of the invention is useful
CC for expression of the IFNG isogenes in vivo, for in vivo screening and
CC testing of drugs targeted against IFNG protein, and for testing the
CC efficacy of therapeutic agents and compounds for type I diabetes,
CC multiple sclerosis, asthma and immune-related disorders, in a biological
CC system. The present nucleic acid sequence represents ASO (allele-specific
CC oligonucleotide) probe #1 that was used in the methods of the invention
CC to detect polymorphisms in the human IFNG gene.
XX
SQ Sequence 15 BP; 0 A; 4 C; 3 G; 7 T; 1 other;
Query Match 8.2%; Score 11.4; DB 1; Length 15;
Best Local Similarity 80.0%; Pred. No. 2.6e+02;
Matches 12; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
QY 1648 GAAGGCAAGCACCAG 1662
DB 15 GAAGGCAAGCACCAG 1
RESULT 270
AAL45302/c
ID AAL45302 standard; DNA; 15 BP.
XX
AC AAL45302;
XX
XX 29-MAY-2002 (first entry)
DT
XX Human KCNB1 gene allele-specific primer SEQ ID NO: 16.
DE Human; KCNB1; single nucleotide polymorphism; SNP; gene therapy;
KW potassium voltage-gated channel; Shab-related subfamily, member 1;
KW isogene; arrhythmia; seizures; allele-specific oligonucleotide; PCR;
KW primer; ss.
XX
OS Homo sapiens.
XX
XX WO200204675-A1.
PN
XX 17-JAN-2002.
PD
XX 05-JUL-2001; 2001WO-US21307.
PF
XX 05-JUL-2000; 2000US-215885P.
PR
XX (GENA-) GENAISSANCE PHARM INC.
PA
XX Chew A, Choi JY, Koshy B;
PI WPI; 2002-188469/24.
XX
XX Isolated polymorphic variants of potassium voltage-gated channel.
PT Shab-related subfamily, member 1 (KCNB1) gene useful for expressing
PT KCNB1 protein isoform to screen drugs to treat KCNB1 activity-related
PT disease
XX
XX Claim 16; Page 13; 180pp; English.
PS
XX The present invention provides the protein, gene and cDNA sequences of
CC the human potassium voltage-gated channel, Shab-related subfamily,
CC member 1 (KCNB1) isogene and polymorphisms identified within these
CC sequences. The sequences can be used to screen drugs, which involves
CC contacting the polypeptide with a candidate agent, and to assay for
CC binding activity as a target for drugs to treat arrhythmia and seizures.
CC The present sequence is an allele-specific oligonucleotide primer for the
CC gene of the invention.
XX

XX	03-DEC-2001; 2001WO-US46946.	PI	Bieglecki KM, Chew A, Russo DP, Sausker EA;
XX	01-DEC-2000; 2000US-250606P.	DR	WPI; 2002-435525/46.
XX	(GENA-) GENAISSANCE PHARM INC.	XX	New genetic variants comprising haplotypes of the small inducible
XX	Bieglecki KM, Kazemi A, Shah N;	PT	cytokine subfamily A, member 20 (SCYA20) gene, useful in improving the
XX	WPI; 2002-519581/55.	PT	efficiency drug screening protocols for compounds (e.g. antipsoriatic
XX	Novel genetic variants of Endothelial Differentiation, Sphingolipid G	PT	drug) targeting SCYA20
XX	Protein-Coupled Receptor 1 isogenes, useful for improving efficiency	XX	Claim 14; Page 13; 62pp; English.
XX	and reliability in drug development for treating vascular developmental	XX	The invention describes an isolated polynucleotide, which comprises genes
XX	disorders	CC	member 20 (SCYA20) gene. The polynucleotide comprises polymorphic sites
XX	Claim 14; Page 13; 68pp; English.	CC	referred to as PSI-9 to designate the order in which they are located in
XX	The invention relates to an isolated polynucleotide (I) encoding	CC	the gene. The polymorphisms and haplotypes of SCYA20 gene are useful for
XX	endothelial differentiation, sphingolipid G protein-coupled receptor 1	CC	validating whether SCYA20 is a suitable target for drugs to treat
XX	(EDG1) (II). Also described are methods for haplotyping or genotyping	CC	psoriasis and disorders associated with its abnormal expression or
XX	EDG1 gene of an individual by identifying single nucleotide	CC	function, screening for such drugs and reducing bias in clinical trials
XX	polymorphisms (SNPs) of the gene. (iii) is useful in screening for drugs	CC	of such drugs. Haplotype information would be useful in improving the
XX	targeting (II) that are useful for treating vascular developmental	CC	efficiency and output of several steps in the drug discovery and
XX	disorders. The methods are useful for improving the efficiency and	CC	development process, including target validation, identifying lead
XX	reliability of several steps in the discovery and development of drugs	CC	compounds, early phase clinical trials. The methods are useful in
XX	for treating diseases associated with EDG1 activity. The haplotyping	CC	screening for compounds targeting SCYA20 to treat a specific condition
XX	method is also used in pharmaceutical research to validate EDG1 as a	CC	or disease predicted to be associated with SCYA20 activity, e.g.
XX	candidate target for treating a specific condition or disease predicted	CC	psoriasis. This sequence represents an allele specific oligonucleotide
XX	to be associated with EDG1 activity, e.g. vascular developmental	XX	(ASO) primer used to identify polymorphisms in the SCYA20 gene.
XX	disorders, and in the design of clinical trials for treating a specific	SQ	Sequence 15 BP; 5 A; 6 C; 0 G; 3 T; 1 other;
XX	condition of disease associated with EDG1 activity. The methods are	Query Match	8.2%; Score 11.4; DB 1; Length 15;
XX	also useful for screening compounds targeting EDG1. ABK96286-ABK96332	Best Local Similarity	92.3%; Pred. No. 2.6e+02;
XX	represent EDG1 gene allele-specific oligonucleotides, primer extension	Matches 12; Conservative	0; Mismatches 1; Indels 0; Gaps 0;
XX	oligonucleotides and related PCR primers of the invention.	OY	1696 GTGCTGGAAGTTG 1708
XX	Sequence 15 BP; 2 A; 5 C; 4 G; 3 T; 1 other;	DB	13 GTGATGGAAGTTG 1
SQ	Query Match	RESULT 268	
	Best Local Similarity 80.0%; Pred. No. 2.6e+02;	ABU52104/C	
	Matches 12; Conservative 1; Mismatches 2; Indels 0; Gaps 0;	ID	ABL52104 standard; DNA; 15 BP.
		XX	ABL52104;
		AC	ABL52104;
		XX	12-JUL-2002 (first entry)
		DT	Human PER1 allele specific oligonucleotide probe SEQ ID NO:29.
		XX	Human; period (Drosophila) homologue 1; PER1; polymorphic variant;
		XX	polymorphic site; genotyping; haplotyping; circadian rhythm regulation;
		XX	single nucleotide polymorphism; SNP; gene; probe; ss.
		OS	Homo sapiens.
		XX	Key Location/Qualifiers
		PH	misc_feature /tag= a
		FT	/note= "polymorphic site indicated by an ambiguity base"
		PT	WO200222650-A2.
		XX	21-MAR-2002.
		XX	13-SEP-2001; 2001WO-US28780.
		XX	13-SEP-2000; 2000US-232468P.
		XX	(GENA-) GENAISSANCE PHARM INC.
		XX	Duda A, Kliehm SE, Koshy B;
		XX	WPI; 2002-393941/42.

AC ABV99783;
XX
XX DT 24-FEB-2003 (first entry)
XX
DE Human PFKFB2 allele specific oligonucleotide primer #9.
XX
KW Human; 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 2; PFKFB2;
KW cytosolic; antidiabetic; gene therapy; cancer; diabetes; ss;
KW ASO; allele specific oligonucleotide; primer; polymorphism.
XX
XX OS Homo sapiens.
XX
XX EW WO200194363-A2.
XX
XX PD 13-DEC-2001.
XX
XX PF 07-JUN-2001; 2001WO-US18458.
XX
XX PR 07-JUN-2000; 2000US-209935P.
XX
XX PA (GENA-) GENAISSANCE PHARM INC.
XX
XX PI Duda A, Kazemi A, Koshy B;
XX
XX DR WPI; 2002-566434/60.
XX
XX CC New 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 2 (PFKFB2)
XX PT gene variants, for improving efficiency and reliability in the
XX PT development of drugs for treating diseases associated with PFKFB2
XX PT activity e.g. cancer -
XX
XX PS Claim 16; Page 13; 95pp; English.
XX
XX CC The invention relates to a novel human 6-phosphofructo-2-kinase/
XX CC fructose-2,6-bisphosphatase 2 (PFKFB2) isogene. The PFKFB2 of the
XX CC invention has cytosolic and antidiabetic activity. The polynucleotides
XX CC may have a use in gene therapy. The identified candidate agents targeting
XX CC PFKFB2, are useful for treating cancer and diabetes. The methods of the
XX CC invention are useful for improving the efficiency and reliability of the
XX CC several steps in the discovery and development of drugs for treating
XX CC diseases associated with PFKFB2 activity. The present sequence represents
XX CC a allele specific oligonucleotide (ASO) primer used in the invention to
XX CC detect PFKFB2 gene polymorphisms.
XX
XX SQ Sequence 15 BP; 2 A; 5 C; 4 G; 3 T; 1 other;

Query Match 8.2%; Score 11.4; DB 1; Length 15;
Best Local Similarity 80.0%; Pred. No. 2.6e+02;
Matches 12; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1687 TCCTCCAGCGTGGTG 1701
DB 1 TACTCCAGCGTGGYG 15

RESULT 265
ABX00692
ID ABX00692 standard; RNA; 15 BP.
XX
XX AC ABX00692;
XX
XX DT 23-DEC-2002 (first entry)
XX
XX DE Hepatitis C virus substrate #474 for HCV hammerhead ribozyme #474.
XX
XX KW Enzymatic nucleic acid; RNA cleavage; Hepatitis C virus infection;
XX KW HCV ribozyme; HCV expression; HCV replication; cirrhosis; virocidic;
XX KW liver failure; hepatocellular carcinoma; HCV infection; drug therapy;
XX KW type I interferon; interferon alpha; interferon beta; cytostatic;
XX KW interferon gamma; consensus interferon; hepatotropic; antiinflammatory;
XX KW substrate; hammerhead ribozyme; HH ribozyme; ss.
XX
XX OS Hepatitis C virus.

XX US2002082225-A1.
XX
XX PD 27-JUN-2002.
XX
XX PF 23-MAR-1999; 99US-0274553.
XX
XX PR 23-MAR-1999; 99US-0274553.
XX
XX PA (BLAT/) BLATT L.
XX PA (MCSW/) MCSWIGGEN J A.
XX PA (ROBE/) ROBERTS B.
XX PA (PAVC/) PAVCO P A.
XX PA (MACE/) MACEJACK D.
XX
XX PI Blatt L, McSwiggen JA, Roberts B, Pavco PA, Macejack D;
XX
XX DR WPI; 2002-617759/66.
XX
XX PT New ribozymes targeting RNA derived from hepatitis C virus inhibit
XX PT viral replication and are useful to treat hepatitis C virus infections
XX PT and cirrhosis, liver failure or hepatocellular carcinoma -
XX
XX PS Claim 1; Page 34; 80pp; English.
XX
XX CC The present invention relates to enzymatic nucleic acids which
XX CC specifically cleave RNA derived from Hepatitis C virus (HCV). The
XX CC enzymatic nucleic acid or ribozyme is in a hammerhead (HH) or
XX CC hairpin (HP) motif where the binding arms comprise sequences
XX CC complementary to one of the substrate sequences defined in the
XX CC specification. The HCV ribozymes are useful for modulating the
XX CC expression and/or replication of HCV. They can be used to treat
XX CC cirrhosis, liver failure and/or hepatocellular carcinoma. The HCV
XX CC ribozymes are also useful for treating a condition associated with
XX CC HCV infection in conjunction with one or more other drug therapies,
XX CC particularly type I interferon, especially interferon alpha, beta or
XX CC gamma or consensus interferon. The present sequence represents a
XX CC substrate for a HCV hammerhead (HH) ribozyme.
XX CC Note: Some of the sequence data for this patent did not form part of
XX CC the printed specification. The complete sequence data for this patent
XX CC was obtained in electronic format directly from the USPTO web site
XX CC at seqdata.uspto.gov/paipsIDentry.html.
XX
XX SQ Sequence 15 BP; 2 A; 6 C; 3 G; 4 U; 0 other;

Query Match 8.2%; Score 11.4; DB 1; Length 15;
Best Local Similarity 69.2%; Pred. No. 2.6e+02;
Matches 9; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1686 CTCCTCCAGCGTG 1698
DB 3 CUCCUCCACGUG 15

RESULT 266
ABK96301/C
ID ABK96301 standard; DNA; 15 BP.
XX
XX AC ABK96301;
XX
XX DT 24-SEP-2002 (first entry)
XX
XX DE EDG1 gene allele-specific oligonucleotide #16.
XX
XX KW EDG1; human; haplotyping; vascular developmental disorder; PCR; primer;
XX KW endothelial differentiation sphingolipid G protein-coupled receptor 1;
XX KW ss.
XX
XX OS Homo sapiens.
XX
XX PN WO200244200-A2.
XX
XX PD 06-JUN-2002.


```

Db      3 GGAGATGGAATT 15
|||||
RESULT 262
AAFS3670
ID AAF53670 standard; DNA; 15 BP.
XX AC
XX AAF53670;
XX 30-MAR-2001 (first entry)
XX DE
XX IGF-I oligonucleotide #4630.
XX KW
XX KW Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
XX KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
XX KW skin disorder; insulin-like Growth Factor 1 receptor; IGF-1; ptyriasis;
XX KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
XX KW growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba;
XX KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
XX KW hyperneovascular condition; hyperplasia; kidney disease;
XX KW neovascular condition of the retina; ss.
XX OS Homo sapiens.
XX PN WO200078341-A1.
XX PD 28-DEC-2000.
XX PF 21-JUN-2000; 2000WO-AU00693.
XX PR 21-JUN-1999; 99US-0140345.
XX PA (MURD-) MURDOCH CHILDRENS RES INST.
XX PI Wright CJ, Werther GA, Edmondson SR;
XX DR WPI; 2001-041421/05.
XX PT Ameliorating the effects of a disorder, e.g. psoriasis, by
XX PT administering UV (ultra-violet) treatment (optional) and an antisense
XX PT nucleic acid that inhibits or reduces growth factor mediated cell
XX PT proliferation and/or inflammation -
XX PS Example 8; Page 91; 201pp; English.
XX CC The present invention relates to a method for ameliorating the effects
XX CC of skin disorders. The method comprises contacting the skin with an
XX CC antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
XX CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
XX CC inhibiting or reducing growth factor mediated cell proliferation,
XX CC inflammation and/or other disorders. The present sequence is an
XX CC oligonucleotide of the present invention (see AAF45151 and
XX CC AAF45153-P45161). The method is useful for ameliorating the effects of
XX CC psoriasis, ichthyosis, ptyriasis, ruba, pilaris, serborrhoea, keloids,
XX CC keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the
XX CC skin, a hyperneovascular condition such as a neovascular condition of the
XX CC retina, brain or skin, growth factor-mediated malignancies, other
XX CC sclerotic disease, kidney disease, hyperproliferation of the inside of
XX CC blood vessels or any other hyperplasia.
XX SQ Sequence 15 BP; 5 A; 0 C; 5 G; 5 T; 0 other;
XX
Query Match 8.2%; Score 11.4; DB 1; Length 15;
Best Local Similarity 92.3%; Pred. No. 2.6e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1721 GGAGATGGAATT 1733
|||||
Db 2 GGAGATGGAATT 14
|||||
RESULT 264
ABV99783
ID ABV99783 standard; DNA; 15 BP.
XX

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XX SQ Sequence 15 BP; 5 A; 2 C; 4 G; 4 T; 0 other;
Query Match 8.2%; Score 11.4; DB 1; Length 15;
Best Local Similarity 92.3%; Pred. No. 2.6e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1753 TCCTAAAGGCCCA 1765
14 TCCTAAAGGCCCA 2
DB

RESULT 260
AAF53421/C
ID AAF53421 standard; DNA; 15 BP.
XX AAF53421;
AC AAF53421;
XX 30-MAR-2001 (first entry)
DT
DE IGF-I oligonucleotide #4381.
XX Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
KW skin disorder; insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;
KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;
KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
KW hyperneovascular condition; hyperplasia; kidney disease;
KW neovascular condition of the retina; ss.
XX
OS Homo sapiens.
XX WO200078341-A1.
PN
XX 28-DEC-2000.
PD
PF 21-JUN-2000; 2000WO-AU00693.
XX
PR 21-JUN-1999; 99US-0140345.
XX
PA (MURD-) MURDOCH CHILDRENS RES INST.
XX
PI Wright CJ, Werther GA, Edmondson SR;
PI WPI; 2001-041421/05.
DR
XX Ameliorating the effects of a disorder, e.g. psoriasis, by
PT administering UV (ultra-violet) treatment (optional) and an antisense
PT nucleic acid that inhibits or reduces growth factor mediated cell
PT proliferation and/or inflammation -
XX
PS Example 8; Page 89; 201pp; English.
XX The present invention relates to a method for ameliorating the effects
CC of skin disorders. The method comprises contacting the skin with an
CC antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
CC inhibiting or reducing growth factor mediated cell proliferation,
CC inflammation and/or other disorders. The present sequence is an
CC oligonucleotide which can be used to design the antisense
CC oligonucleotides of the present invention (see AAF45151 and
CC AAF45153-F45161). The method is useful for ameliorating the effects of
CC psoriasis, ichthyosis, pityriasis, ruba, pilaris, serborrhea, keloids,
CC keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the
CC skin, a hyperneovascular condition such as a neovascular condition of the
CC retina, brain or skin, growth factor-mediated malignancies, other
CC sclerotic disease, kidney disease, hyperproliferation of the inside of
CC blood vessels or any other hyperplasia.
XX
SQ Sequence 15 BP; 4 A; 3 C; 4 G; 4 T; 0 other;

Query Match 8.2%; Score 11.4; DB 1; Length 15;
Best Local Similarity 92.3%; Pred. No. 2.6e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1721 GGAGATGGAGATT 1733

Query Match 8.2%; Score 11.4; DB 1; Length 15;
Best Local Similarity 92.3%; Pred. No. 2.6e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1753 TCCTAAAGGCCCA 1765
13 TCCTAAAGGCCCA 1
DB

RESULT 261
AAF53669
ID AAF53669 standard; DNA; 15 BP.
XX AAF53669;
AC AAF53669;
XX 30-MAR-2001 (first entry)
DT
DE IGF-I oligonucleotide #4629.
XX
KW Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
KW skin disorder; insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;
KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;
KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
KW hyperneovascular condition; hyperplasia; kidney disease;
KW neovascular condition of the retina; ss.
XX
OS Homo sapiens.
XX WO200078341-A1.
PN
XX 28-DEC-2000.
PD
PF 21-JUN-2000; 2000WO-AU00693.
XX
PR 21-JUN-1999; 99US-0140345.
XX
PA (MURD-) MURDOCH CHILDRENS RES INST.
XX
PI Wright CJ, Werther GA, Edmondson SR;
PI WPI; 2001-041421/05.
DR
XX Ameliorating the effects of a disorder, e.g. psoriasis, by
PT administering UV (ultra-violet) treatment (optional) and an antisense
PT nucleic acid that inhibits or reduces growth factor mediated cell
PT proliferation and/or inflammation -
XX
PS Example 8; Page 91; 201pp; English.
XX The present invention relates to a method for ameliorating the effects
CC of skin disorders. The method comprises contacting the skin with an
CC antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
CC inhibiting or reducing growth factor mediated cell proliferation,
CC inflammation and/or other disorders. The present sequence is an
CC oligonucleotide which can be used to design the antisense
CC oligonucleotides of the present invention (see AAF45151 and
CC AAF45153-F45161). The method is useful for ameliorating the effects of
CC psoriasis, ichthyosis, pityriasis, ruba, pilaris, serborrhea, keloids,
CC keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the
CC skin, a hyperneovascular condition such as a neovascular condition of the
CC retina, brain or skin, growth factor-mediated malignancies, other
CC sclerotic disease, kidney disease, hyperproliferation of the inside of
CC blood vessels or any other hyperplasia.
XX
SQ Sequence 15 BP; 5 A; 0 C; 6 G; 4 T; 0 other;

Query Match 8.2%; Score 11.4; DB 1; Length 15;
Best Local Similarity 92.3%; Pred. No. 2.6e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

CC oligonucleotides of the present invention (see AAF45151 and
 CC AAF5153-F45161). The method is useful for ameliorating the effects of
 CC psoriasis, ichthyosis, pityriasis, ruba, pilaris, serborrhoea, keloids,
 CC keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the
 CC skin, a hyperneovascular condition such as a neovascular condition of the
 CC retina, brain or skin, growth factor-mediated malignancies, other
 CC sclerotic disease, kidney disease, hyperproliferation of the inside of
 CC blood vessels or any other hyperplasia.

CC Sequence 15 BP; 5 A; 7 C; 2 G; 1 T; 0 other;
 SQ

Query Match 8.2%; Score 11.4; DB 1; Length 15;
 Best Local Similarity 92.3%; Pred. No. 2.6e+02;
 Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1666 CACAGCTGCAACC 1678
 |||||
 Db 1 CACAGCTGCAACC 13

RESULT 258
 AAF53419/C
 ID AAF53419 standard; DNA; 15 BP.
 XX AC AAF53419;
 XX AC
 XX 30-MAR-2001 (first entry)
 DT
 XX IGF-I oligonucleotide #4379.
 DE
 XX Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
 KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
 KW skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;
 KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
 KW growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba;
 KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
 KW hyperneovascular condition; hyperplasia; kidney disease;
 KW neovascular condition of the retina; ss.
 XX Homo sapiens.
 XX WO200078341-A1.
 PN 28-DEC-2000.
 XX 21-JUN-2000; 2000WO-AU00693.
 XX 21-JUN-1999; 99US-0140345.
 XX (MURD-) MURDOCH CHILDRENS RES INST.
 XX Wright CJ, Werther GA, Edmondson SR;
 XX WPI; 2001-041421/05.
 XX Ameliorating the effects of a disorder, e.g. psoriasis, by
 PT administering UV (ultra-violet) treatment (optional) and an antisense
 PT nucleic acid that inhibits or reduces growth factor mediated cell
 PT proliferation and/or inflammation -
 XX Example 8; Page 89; 201pp; English.
 XX The present invention relates to a method for ameliorating the effects
 CC of skin disorders. The method comprises contacting the skin with an
 CC antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
 CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
 CC inhibiting or reducing growth factor mediated cell proliferation,
 CC inflammation and/or other disorders. The present sequence is an
 CC oligonucleotide which can be used to design the antisense
 CC oligonucleotides of the present invention (see AAF45151 and
 CC AAF5153-F45161). The method is useful for ameliorating the effects of
 CC psoriasis, ichthyosis, pityriasis, ruba, pilaris, serborrhoea, keloids,
 CC keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the
 CC retina, brain or skin, growth factor-mediated malignancies, other
 CC sclerotic disease, kidney disease, hyperproliferation of the inside of
 CC blood vessels or any other hyperplasia.

CC skin, a hyperneovascular condition such as a neovascular condition of the
 CC retina, brain or skin, growth factor-mediated malignancies, other
 CC sclerotic disease, kidney disease, hyperproliferation of the inside of
 CC blood vessels or any other hyperplasia.

CC Sequence 15 BP; 4 A; 3 C; 4 G; 4 T; 0 other;
 SQ

Query Match 8.2%; Score 11.4; DB 1; Length 15;
 Best Local Similarity 92.3%; Pred. No. 2.6e+02;
 Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1753 TCCTAAGGCCCA 1765
 |||||
 Db 15 TCCTAAGGCCCA 3

RESULT 259
 AAF53420/C
 ID AAF53420 standard; DNA; 15 BP.
 XX AC AAF53420;
 XX AC
 XX 30-MAR-2001 (first entry)
 DT
 XX IGF-I oligonucleotide #4380.
 DE
 XX Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
 KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
 KW skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;
 KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
 KW growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba;
 KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
 KW hyperneovascular condition; hyperplasia; kidney disease;
 KW neovascular condition of the retina; ss.
 XX Homo sapiens.
 XX WO200078341-A1.
 PN 28-DEC-2000.
 XX 21-JUN-2000; 2000WO-AU00693.
 XX 21-JUN-1999; 99US-0140345.
 XX (MURD-) MURDOCH CHILDRENS RES INST.
 XX Wright CJ, Werther GA, Edmondson SR;
 XX WPI; 2001-041421/05.
 XX Ameliorating the effects of a disorder, e.g. psoriasis, by
 PT administering UV (ultra-violet) treatment (optional) and an antisense
 PT nucleic acid that inhibits or reduces growth factor mediated cell
 PT proliferation and/or inflammation -
 XX Example 8; Page 89; 201pp; English.
 XX The present invention relates to a method for ameliorating the effects
 CC of skin disorders. The method comprises contacting the skin with an
 CC antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
 CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
 CC inhibiting or reducing growth factor mediated cell proliferation,
 CC inflammation and/or other disorders. The present sequence is an
 CC oligonucleotide which can be used to design the antisense
 CC oligonucleotides of the present invention (see AAF45151 and
 CC AAF5153-F45161). The method is useful for ameliorating the effects of
 CC psoriasis, ichthyosis, pityriasis, ruba, pilaris, serborrhoea, keloids,
 CC keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the
 CC skin, a hyperneovascular condition such as a neovascular condition of the
 CC retina, brain or skin, growth factor-mediated malignancies, other
 CC sclerotic disease, kidney disease, hyperproliferation of the inside of
 CC blood vessels or any other hyperplasia.

XX The present invention relates to a method for ameliorating the effects
 CC of skin disorders. The method comprises contacting the skin with an
 CC antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
 CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
 CC inhibiting or reducing growth factor mediated cell proliferation,
 CC inflammation and/or other disorders. The present sequence is an
 CC oligonucleotide of the present invention (see AAF45151 and
 CC AAF45153-F45161). The method is useful for ameliorating the effects of
 CC psoriasis, ichthyosis, pityriasis, ruba, pilaris, serborrhea, keloids,
 CC keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the
 CC skin, a hyperneovascular condition such as a neovascular condition of the
 CC retina, brain or skin, growth factor-mediated malignancies, other
 CC sclerotic disease, kidney disease, hyperproliferation of the inside of
 CC blood vessels or any other hyperplasia.
 XX Sequence 15 BP; 4 A; 7 C; 2 G; 2 T; 0 other;
 SQ

Query Match 8.2%; Score 11.4; DB 1; Length 15;
 Best Local Similarity 92.3%; Pred. No. 2.6e+02;
 Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1666 CACAGCTGGAACC 1678
 Db 3 CACAGCTGGAACC 15
 |||||
 |||||

RESULT 256
 AAF51494
 ID AAF51494 standard; DNA; 15 BP.
 XX AC AAF51494;
 XX 30-MAR-2001 (first entry)
 XX IGF-I oligonucleotide #2454.
 KW Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
 KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
 KW skin disorder; insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;
 KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
 KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;
 KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
 KW hyperneovascular condition; hyperplasia; kidney disease;
 KW neovascular condition of the retina; ss.
 XX Homo sapiens.
 OS
 PN WO200078341-A1.
 XX 28-DEC-2000.
 PD
 XX 21-JUN-2000; 2000WO-AU00693.
 PF
 XX 21-JUN-1999; 99US-0140345.
 PR
 XX (MURD-) MURDOCH CHILDRENS RES INST.
 PA
 XX Wright CJ, Werther GA, Edmondson SR;
 PI
 XX WPI; 2001-041421/05.
 DR
 XX Ameliorating the effects of a disorder, e.g. psoriasis, by
 PT administering UV (ultra-violet) treatment (optional) and an antisense
 PT nucleic acid that inhibits or reduces growth factor mediated cell
 PT proliferation and/or inflammation -
 PS Example 8; Page 76; 201pp; English.
 XX The present invention relates to a method for ameliorating the effects
 CC of skin disorders. The method comprises contacting the skin with an
 CC antisense oligonucleotide, (for insulin-like Growth Factor [IGF]-1

CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
 CC inhibiting or reducing growth factor mediated cell proliferation,
 CC inflammation and/or other disorders. The present sequence is an
 CC oligonucleotide which can be used to design the antisense
 CC oligonucleotides of the present invention (see AAF45151 and
 CC AAF45153-F45161). The method is useful for ameliorating the effects of
 CC psoriasis, ichthyosis, pityriasis, ruba, pilaris, serborrhea, keloids,
 CC keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the
 CC skin, a hyperneovascular condition such as a neovascular condition of the
 CC retina, brain or skin, growth factor-mediated malignancies, other
 CC sclerotic disease, kidney disease, hyperproliferation of the inside of
 CC blood vessels or any other hyperplasia.
 XX Sequence 15 BP; 5 A; 7 C; 2 G; 1 T; 0 other;
 SQ

Query Match 8.2%; Score 11.4; DB 1; Length 15;
 Best Local Similarity 92.3%; Pred. No. 2.6e+02;
 Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1666 CACAGCTGGAACC 1678
 Db 2 CACAGCTGGAACC 14
 |||||
 |||||

RESULT 257
 AAF51495
 ID AAF51495 standard; DNA; 15 BP.
 XX AC AAF51495;
 XX 30-MAR-2001 (first entry)
 XX IGF-I oligonucleotide #2455.
 KW Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
 KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
 KW skin disorder; insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;
 KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
 KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;
 KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
 KW hyperneovascular condition; hyperplasia; kidney disease;
 KW neovascular condition of the retina; ss.
 XX Homo sapiens.
 OS
 PN WO200078341-A1.
 XX 28-DEC-2000.
 PD
 XX 21-JUN-2000; 2000WO-AU00693.
 PF
 XX 21-JUN-1999; 99US-0140345.
 PR
 XX (MURD-) MURDOCH CHILDRENS RES INST.
 PA
 XX Wright CJ, Werther GA, Edmondson SR;
 PI
 XX WPI; 2001-041421/05.
 DR
 XX Ameliorating the effects of a disorder, e.g. psoriasis, by
 PT administering UV (ultra-violet) treatment (optional) and an antisense
 PT nucleic acid that inhibits or reduces growth factor mediated cell
 PT proliferation and/or inflammation -
 PS Example 8; Page 76; 201pp; English.
 XX The present invention relates to a method for ameliorating the effects
 CC of skin disorders. The method comprises contacting the skin with an
 CC antisense oligonucleotide, (for insulin-like Growth Factor [IGF]-1
 CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
 CC inhibiting or reducing growth factor mediated cell proliferation,
 CC inflammation and/or other disorders. The present sequence is an
 CC oligonucleotide which can be used to design the antisense

XX WPI; 2000-062023/05.
 XX Novel ribozymes for the treatment of diseases and conditions related to
 PT hepatitis C infection -
 XX Claim 1; Page 65; 123pp; English.
 XX The present sequence represents the preferred target sequence of an
 CC enzymatic nucleic acid, especially a hammerhead ribozyme, which cleaves
 CC the Hepatitis C virus (HCV) RNA sequence at the base position given
 CC in the descriptor line.
 CC The HCV sequence was screened for optimal ribozyme target sites using
 CC a computer folding algorithm and regions of the mRNA which did not form
 CC secondary folding structures and contained potential ribozyme cleavage
 CC sites were identified. Ribozymes were synthesised to target these sites
 CC and their activities optimised by either varying the length of the
 CC binding arms or by modification to prevent degradation by nucleases.
 CC The ribozymes of the invention inhibit gene expression and/or viral
 CC replication, and are used to treat diseases associated with Hepatitis C
 CC virus (HCV) infection, e.g. cirrhosis, liver failure and hepatocellular
 CC carcinoma. The ribozymes may be used in combination with interferon to
 CC treat HCV infection, other infectious diseases, autoimmune diseases, and
 CC cancer.
 XX Sequence 15 BP; 2 A; 6 C; 3 G; 4 U; 0 other;
 SQ Query Match 8.2%; Score 11.4; DB 1; Length 15;
 Best Local Similarity 69.2%; Pred. No. 2.6e+02;
 Matches 9; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
 QY 1686 CTCCTCCAGCGTG 1698
 DB 3 CUCCUCCAAACGUG 15
 RESULT 254
 AAF47175/C
 ID AAF47175 standard; DNA; 15 BP.
 XX AAF47175;
 AC
 XX 30-MAR-2001 (first entry)
 DT
 DE IGFBP3 oligonucleotide #95.
 XX Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
 KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
 KW skin disorder; insulin-like Growth Factor 1 receptor; IGF-1; ptyriasis;
 KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
 KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;
 KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
 KW hyperneovascular condition; hyperplasia; kidney disease;
 KW neovascular condition of the retina; ss.
 XX Homo sapiens.
 OS
 XX WO200078341-A1.
 PN
 XX 28-DEC-2000.
 PD
 XX 21-JUN-2000; 2000WO-AU00693.
 PF
 XX 21-JUN-1999; 99US-0140345.
 PR
 XX (MURD-) MURDOCH CHILDRENS RES INST.
 PA
 XX Wright CJ, Werther GA, Edmondson SR;
 PI
 XX WPI; 2001-041421/05.
 DR
 XX Ameliorating the effects of a disorder, e.g. psoriasis, by
 PT administering UV (ultra-violet) treatment (optional) and an antisense
 PT nucleic acid that inhibits or reduces growth factor mediated cell
 PT proliferation and/or inflammation -
 XX Example 8; Page 76; 201pp; English.
 PS

PT nucleic acid that inhibits or reduces growth factor mediated cell
 PT proliferation and/or inflammation -
 XX Example 7; Page 48; 201pp; English.
 XX The present invention relates to a method for ameliorating the effects
 CC of skin disorders. The method comprises contacting the skin with an
 CC antisense oligonucleotide, (for insulin-like Growth Factor [IGF]-1
 CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
 CC inhibiting or reducing growth factor mediated cell proliferation,
 CC inflammation and/or other disorders. The present sequence is an
 CC oligonucleotide which can be used to design the antisense
 CC oligonucleotides of the present invention (see AAF45151 and
 CC AAF45153-F45161). The method is useful for ameliorating the effects of
 CC psoriasis, ichthyosis, pityriasis, ruba, pilaris, serborrhea, keloids,
 CC keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the
 CC skin, a hyperneovascular condition such as a neovascular condition of the
 CC retina, brain or skin, growth factor-mediated malignancies, other
 CC sclerotic disease, kidney disease, hyperproliferation of the inside of
 CC blood vessels or any other hyperplasia.
 XX Sequence 15 BP; 3 A; 8 C; 1 G; 3 T; 0 other;
 SQ Query Match 8.2%; Score 11.4; DB 1; Length 15;
 Best Local Similarity 92.3%; Pred. No. 2.6e+02;
 Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1698 GGTGGAAGTTGGG 1710
 DB 14 GGTGGAAGTTGGG 2
 RESULT 255
 AAF51493
 ID AAF51493 standard; DNA; 15 BP.
 XX AAF51493;
 AC
 XX 30-MAR-2001 (first entry)
 DT
 DE IGF-I oligonucleotide #2453.
 XX Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
 KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
 KW skin disorder; insulin-like Growth Factor 1 receptor; IGF-1; ptyriasis;
 KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
 KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;
 KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
 KW hyperneovascular condition; hyperplasia; kidney disease;
 KW neovascular condition of the retina; ss.
 XX Homo sapiens.
 OS
 XX WO200078341-A1.
 PN
 XX 28-DEC-2000.
 PD
 XX 21-JUN-2000; 2000WO-AU00693.
 PF
 XX 21-JUN-1999; 99US-0140345.
 PR
 XX (MURD-) MURDOCH CHILDRENS RES INST.
 PA
 XX Wright CJ, Werther GA, Edmondson SR;
 PI
 XX WPI; 2001-041421/05.
 DR
 XX Ameliorating the effects of a disorder, e.g. psoriasis, by
 PT administering UV (ultra-violet) treatment (optional) and an antisense
 PT nucleic acid that inhibits or reduces growth factor mediated cell
 PT proliferation and/or inflammation -
 XX Example 8; Page 76; 201pp; English.
 PS

XX 31-AUG-1995.
 XX
 XX
 XX 24-FEB-1995; 95WO-JP00285.
 XX
 XX 25-FEB-1994; 94JP-0028612.
 XX
 XX (FUJI) FUJISAWA PHARM CO LTD.
 XX
 XX Hayashi H, Ishii Y, Niwa M, Saito Y, Yoshida M;
 XX
 XX WPI; 1995-311531/40.
 XX
 XX Vector containing L-sorbose and L-sorbose dehydrogenase genes
 PT used to transform microorganisms for the efficient production of
 PT 2-keto-L-gulonic acid
 XX
 XX Example 9; Page 21; 78pp; Japanese.
 XX
 XX AAT04287-T04293 are primers for the G. oxydans L-sorbose
 CC dehydrogenase (SNDH) gene. An expression vector contg. the G.
 CC oxydans L-sorbose dehydrogenase and SNDH genes arranged in
 CC sequence from a single promoter, is used to transform
 CC Gluconobacter or Acetobacter spp. hosts. The hosts then express
 CC the above dehydrogenases which are used in the prodn. of large
 CC quantities of 2-keto-gulonic acid, an ascorbic acid synthesis
 CC intermediate.
 XX
 XX Sequence 15 BP; 4 A; 1 C; 7 G; 3 T; 0 other;
 SQ
 Query Match 8.2%; Score 11.4; DB 1; Length 15;
 Best Local Similarity 92.3%; Pred. No. 2.6e+02;
 Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1724 GATGGAGATTGGC 1736
 DB 2 GATGGAGATTGGC 14
 RESULT 252
 AAQ80594/C
 ID AAQ80594 standard; DNA; 15 BP.
 XX
 XX AAQ80594;
 AC
 XX 25-MAR-2003 (updated)
 DT 12-OCT-1995 (first entry)
 DT
 XX M.tuberculosis 16S rRNA 3'-biotinylated capture probe.
 DE
 XX
 XX Mycobacterium tuberculosis; 16S ribosomal RNA;
 KW strand displacement amplification; simultaneous detection;
 KW adaptor-mediated multiplex amplification; ss.
 XX
 XX Synthetic.
 OS
 XX Key Location/Qualifiers
 XX modified_base 15
 FT /*tag= a
 FT /note= "3'-biotinylated"
 FT
 XX EP640691-A2.
 FN
 XX 01-MAR-1995.
 PD
 XX 16-AUG-1994; 94EP-0112741.
 XX
 XX 24-AUG-1993; 93US-0111076.
 XX
 XX (BECT) BECTON DICKINSON CO.
 PA
 XX Jurgensen SR, Nadeau JG, Nycz CM, Schram JL, Shank DD;
 PI Spears PA, Walker GT;
 PI

XX WPI; 1995-092337/13.
 XX
 XX Detection of Mycobacterium by multiplex nucleic acid
 PT amplification - by amplification of the IS6110 insertion element
 PT of M. tuberculosis, allows detection and/or identification of the
 PT M. tuberculosis complex
 XX
 XX Example 3; Page 16; 23pp; English.
 XX
 XX A Mycobacterium tuberculosis IS6110 amplification primer (AAQ80578)
 CC is used in a PCR and the extension product is then displaced and an
 CC IS6110 adaptor primer (AAQ80579) is hybridised to it. Following
 CC extension of the adaptor primer, the second extension product is
 CC displaced and hybridised to a M.tuberculosis 16S rRNA gene
 CC amplification primer (AAQ80582) which is then extended. The third
 CC extension product is displaced and hybridised to a 16S adaptor
 CC primer (AAQ80583) for chain extension; the fourth extension product
 CC is then displaced and is amplified simultaneously with the second
 CC extension product using the IS6110 and 16S amplification primers.
 CC The new method allows coamplification of genus- (i.e. 16S rRNA)
 CC and species- (i.e. IS6110) specific target nucleic acids by strand
 CC displacement amplification.
 CC Opt. an internal control sequence (AAQ80589) can be added to the
 CC sample prior to initial amplification. In this case, amplified
 CC target and control sequences were captured on microwell plates by
 CC hybridisation to an immobilised (via biotin-streptavidin binding)
 CC capture probe. Detector probes labelled with alkaline phosphatase
 CC were then used in a sandwich hybridisation assay to indirectly
 CC detect the amplification products.
 CC (Updated on 25-MAR-2003 to correct PN field.)
 XX
 XX Sequence 15 BP; 2 A; 3 C; 6 G; 4 T; 0 other;
 SQ
 Query Match 8.2%; Score 11.4; DB 1; Length 15;
 Best Local Similarity 92.3%; Pred. No. 2.6e+02;
 Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1658 ACCAGGCTCACAG 1670
 DB 14 ACCAGGCTCACAG 2
 RESULT 253
 AAZ62841
 ID AAZ62841 standard; RNA; 15 BP.
 XX
 XX AAZ62841;
 AC
 XX 28-MAR-2000 (first entry)
 DT
 XX
 XX Substrate for HH ribozyme HCV-8701 which cleaves HCV RNA at nt. 8701.
 DE
 XX Enzymatic nucleic acid; hammerhead ribozyme; virus replication; cleavage;
 KW cirrhosis; liver failure; hepatocellular carcinoma; interferon; cancer;
 KW autoimmune disease; ss.
 XX
 XX Hepatitis C virus.
 OS
 XX WO9955847-A2.
 FN
 XX 04-NOV-1999.
 PD
 XX 26-APR-1999; 99WO-US09027.
 XX
 XX 27-APR-1998; 98US-0083217.
 XX 18-SEP-1998; 98US-0100842.
 XX 25-FEB-1999; 99US-0257608.
 XX 23-MAR-1999; 99US-0274553.
 XX
 XX (RIBO-) RIBOZYME PHARM INC.
 PA
 XX Blatt L, McSwiggen JA, Roberts E, Pavco PA, Maceak D;
 PI

1.rng

Mon Jan 12 13:57:51 2004

QY 1703 AAGTTGGGTTAGG 1715
 Db 13 AAGTTGGGTTAGG 1

RESULT 249
 AAT98901
 ID AAT98901 standard; DNA; 14 BP.
 XX
 AC AAT98901;
 XX
 DT 23-MAR-1998 (first entry)
 XX
 DE Probe 41w32 for HIV RT gene wild type E40M41.
 XX
 KW Reverse transcriptase gene; HIV; RT gene; antiviral drug susceptibility;
 KW virus susceptibility; antiviral drug resistant viral strain; retrovirus;
 KW Hepadnaviridae; HIV RT genotyping; probe; ss.
 XX
 OS Synthetic.
 OS Human immunodeficiency virus type 1.
 XX
 PN WO9727332-A1.
 XX
 PD 31-JUL-1997.
 XX
 PF 17-JAN-1997; 97WO-EP00211.
 XX
 PR 25-JUN-1996; 96EP-0870081.
 PR 26-JAN-1996; 96EP-0870005.
 XX
 PA (INNO-) INNOGENETICS NV.
 XX
 PI Louwagie J, Rossau R, Stuyver L;
 XX WPI; 1997-393716/36.
 XX
 DR Determining susceptibility to antiviral drugs of reverse
 PT transcriptase containing viruses - useful for genotyping HIV RT and
 PT detecting antiviral resistant HIV
 XX
 PS Claim 13; Page 36; 59pp; English.
 XX
 CC This sequence represents a probe for a wild type HIV reverse
 CC transcriptase (RT) gene fragment. This sequence can be used in the method
 CC of the invention for determining the susceptibility to antiviral drugs of
 CC viruses which contain RT genes and are present in a biological sample. It
 CC comprises: (1) releasing, isolating or concentrating the polynucleic
 CC acids present in a sample; (2) amplifying the relevant part of the RT
 CC genes present with at least one suitable primer pair; (3) hybridising the
 CC polynucleic acids of step (1) or (2) with at least two RT gene probes,
 CC the probes being applied to known locations on a solid support, and are
 CC capable of simultaneously hybridising to their respective target regions
 CC under appropriate hybridisation and wash condition allowing the detection
 CC of homologous targets, or with the probes hybridising specifically with a
 CC sequence complementary to any of the target sequences; (4) detecting the
 CC hybrids formed in step (3); and (4) inferring the nucleotide sequence at
 CC the codons of interest (codons 38-44, 47-53, 65-72, 73-77, 148-154,
 CC 180-187, 212-216, and 217-220), and/or the amino acids of the codons of
 CC interest and/or antiviral drug resistance spectrum, and possible the type
 CC of viral isolates involved from the differential hybridisation signals
 CC obtained in step (4). The method is specifically used to detect antiviral
 CC drug resistant strains of viruses containing RT genes, especially HIV
 CC retroviruses and Hepadnaviridae. The method can also be used for
 CC genotyping HIV RT.
 XX
 SQ Sequence 14 BP; 6 A; 1 C; 5 G; 2 T; 0 other;

Query Match 8.2%; Score 11.4; DB 1; Length 14;
 Best Local Similarity 92.3%; Pred. NO. 2.4e+02;
 Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1717 GTACGAGATGGA 1729
 Db 1 GTACGAGATGGA 13

RESULT 250
 AAQ74479
 ID AAQ74479 standard; DNA; 15 BP.
 XX
 AC AAQ74479;
 XX
 DT 25-MAR-2003 (updated)
 DT 28-APR-1995 (first entry)
 XX
 DE Primer based on plasmid constructs pSD5MRV and pSD6RRV sequences.
 XX
 KW L-sorbose dehydrogenase; Gluconobacter oxydans; enzyme;
 KW L-keto-L-gulonic acid; ascorbic acid; L-sorbose dehydrogenase;
 KW ss.
 XX
 OS Synthetic.
 OS WO9420609-A1.
 XX
 PN 15-SEP-1994.
 XX
 PD 08-MAR-1994; 94WO-JP00369.
 XX
 PF 08-MAR-1993; 93GB-0004700.
 PR 28-SEP-1993; 93JP-0241851.
 XX
 PA (FUJI) FUJISAWA PHARM CO LTD.
 XX
 PI Ishii Y, Niwa M, Saito Y, Suzuki H, Yoshida M;
 XX WPI; 1994-303017/37.
 XX
 DR Novel dehydrogenase enzymes - used in the production of
 PT L-keto-L-gulonic acid and L-ascorbic acid
 XX
 PS Example 9; Page 23; 47pp; Japanese.
 XX
 CC Seven primers (AAQ74479-85) were based on sequences of the constructs
 CC designated pSD5MRV and pSD6RRV and used in amplification reactions.
 CC (Updated on 25-MAR-2003 to correct PN field.)
 XX
 SQ Sequence 15 BP; 4 A; 1 C; 7 G; 3 T; 0 other;

Query Match 8.2%; Score 11.4; DB 1; Length 15;
 Best Local Similarity 92.3%; Pred. NO. 2.6e+02;
 Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1724 GATGGAGATTGGC 1736
 Db 2 GATGGAGATTGGC 14

RESULT 251
 AAT04287
 ID AAT04287 standard; DNA; 15 BP.
 XX
 AC AAT04287;
 XX
 DT 09-APR-1996 (first entry)
 XX
 DE G. oxydans T100 L-sorbose dehydrogenase gene primer 1.
 XX
 KW L-sorbose dehydrogenase; 2-keto-gulonic acid; ascorbic acid;
 KW synthesis; recombinant production; expression vector; primer 1; ss.
 XX
 OS Synthetic.
 OS WO9523220-A1.
 XX
 PN

XX WPI; 2001-657177/75.
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX Claim 1; SEQ ID 257094; 29pp + Sequence Listing; German.
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABI00010-ABI82073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.

XX SQ Sequence 13 BP; 4 A; 6 C; 1 G; 2 T; 0 other;
Query Match 8.2%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 2.1e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1710 GTTAGGACTACGG 1722
DB 13 GTTGGAGTACGG 1

RESULT 247
ABH62596
ID ABH62596 standard; DNA; 13 BP.
XX AC ABH62596;
XX 22-FEB-2002 (first entry)
XX Oligonucleotide SEQ ID NO 262573 for detecting SNP TSC0001590.
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX Homo sapiens.

XX WO200177384-A2.
XX 18-OCT-2001.
XX 06-APR-2001; 2001WO-IB00713.
XX 07-APR-2000; 2000DE-1019173.
XX (EPIG-) EPIGENOMICS AG.
XX Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX Claim 1; SEQ ID 262573; 29pp + Sequence Listing; German.
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,

CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABI00010-ABI82073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.

XX SQ Sequence 13 BP; 3 A; 0 C; 7 G; 3 T; 0 other;
Query Match 8.2%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 2.1e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1703 AAGTTGGGTAGG 1715
DB 1 AAGTTGGGTAGG 13

RESULT 248
ABH62597/C
ID ABH62597 standard; DNA; 13 BP.
XX AC ABH62597;
XX 22-FEB-2002 (first entry)
XX Oligonucleotide SEQ ID NO 262574 for detecting SNP TSC0001590.
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX Homo sapiens.

XX WO200177384-A2.
XX 18-OCT-2001.
XX 06-APR-2001; 2001WO-IB00713.
XX 07-APR-2000; 2000DE-1019173.
XX (EPIG-) EPIGENOMICS AG.
XX Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX Claim 1; SEQ ID 262574; 29pp + Sequence Listing; German.
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABI00010-ABI82073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.

XX SQ Sequence 13 BP; 3 A; 7 C; 0 G; 3 T; 0 other;
Query Match 8.2%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 2.1e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

ID	ABH33147	standard; DNA; 13 BP.
XX	ABH33147;	
XX	AC	
XX	XX	
XX	22-FEB-2002	(first entry)
DT	XX	
XX	XX	
DE	XX	Oligonucleotide SEQ ID NO 233124 for detecting SNP TSC0056884.
XX	XX	SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX	XX	peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX	XX	central nervous system; gastrointestinal; respiratory; immune; metabolic.
OS	XX	Homo sapiens.
XX	XX	
XX	XX	W0200177384-A2.
PN	XX	
XX	XX	18-OCT-2001.
PD	XX	
XX	XX	06-APR-2001; 2001WO-IB00713.
XX	XX	
PF	XX	07-APR-2000; 2000DE-1019173.
XX	XX	
PR	XX	(EPIG-) EPIGENOMICS AG.
XX	XX	Olek A, Piepenbrock C, Berlin K;
XX	XX	PA
XX	XX	PI
XX	XX	WPI; 2001-657177/75.
DR	XX	
XX	XX	Set of oligonucleotides, useful for diagnosis and cell typing, is
XX	XX	designed to detect single nucleotide polymorphisms and cytosine
PT	PT	methylation status -
PT	PT	
XX	XX	Claim 1; SEQ ID 233124; 29pp + Sequence Listing; German.
PS	XX	
XX	XX	This invention describes novel oligonucleotide primers or peptide nucleic
CC	XX	acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP),
CC	XX	and cytosine methylation status in chemically pretreated genomic DNA. The
CC	XX	oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC	XX	range of diseases including immune system, gastrointestinal, respiratory,
CC	XX	central nervous system, cardiovascular and metabolic disorders. The
CC	XX	oligomers are also used for detecting cell type differentiation.
CC	XX	AB000010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC	XX	ABI00010-ABI82073 represent the oligomers described in the invention.
CC	XX	NOTE: The sequence data for this patent did not form part of the printed
CC	XX	specification, but was obtained in electronic format from WIPO at
CC	XX	ftp.wipo.int/pub/published_pct_sequences.
XX	XX	
SQ	XX	Sequence 13 BP; 5 A; 4 C; 0 G; 4 T; 0 other;
Query Match 8.2%; Score 11.4; DB 1; Length 13;		
Best Local Similarity 92.3%; Pred. No. 2.1e-02;		
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;		
QY	1747	TCCTATCCTAAA 1759
Db	1	TACCTATCCTAAA 13
RESULT	245	
ABH57116		
ID	ABH57116	standard; DNA; 13 BP.
XX	XX	
XX	XX	ABH57116;
XX	XX	
XX	XX	22-FEB-2002 (first entry)
DT	XX	
XX	XX	Oligonucleotide SEQ ID NO 257093 for detecting SNP TSC0062579.
XX	XX	SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX	XX	peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX	XX	central nervous system; gastrointestinal; respiratory; immune; metabolic.
OS	XX	Homo sapiens.

CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABT00010-ABT82073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.

XX SQ Sequence 13 BP; 1 A; 0 C; 8 G; 4 T; 0 other;

Query Match 8.2%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 2.1e-02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1698 GGTGGAAGTTGGG 1710
|||||
DB 1 GGTGTAGTTGGG 13

RESULT 242
ABF62159/c
ID ABF62159 standard; DNA; 13 BP.
AC ABF62159;
XX
XX
XX 22-FEB-2002 (first entry)
XX
XX Oligonucleotide SEQ ID NO 162156 for detecting SNP TSC0040797.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
XX (EPIG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status -
XX
XX Claim 1; SEQ ID 162156; 29pp + Sequence Listing; German.

CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABT00010-ABT82073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.

SQ Sequence 13 BP; 4 A; 8 C; 0 G; 1 T; 0 other;

Query Match 8.2%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 2.1e-02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1698 GGTGGAAGTTGGG 1710
|||||
DB 13 GGTGTAGTTGGG 1

RESULT 243
ABH33146/c
ID ABH33146 standard; DNA; 13 BP.
XX
XX ABH33146;
XX
XX 22-FEB-2002 (first entry)
XX
XX Oligonucleotide SEQ ID NO 233123 for detecting SNP TSC0056884.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
XX (EPIG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status -
XX
XX Claim 1; SEQ ID 233123; 29pp + Sequence Listing; German.

CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABT00010-ABT82073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.

XX SQ Sequence 13 BP; 4 A; 0 C; 4 G; 5 T; 0 other;

Query Match 8.2%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 2.1e-02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1747 TCCCTATCCTAAA 1759
|||||
DB 13 TACCTATCCTAAA 1

RESULT 244
ABH33147

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX Homo sapiens.
 XX WO200177384-A2.
 XX 18-OCT-2001.
 XX 06-APR-2001; 2001WO-IB00713.
 XX 07-APR-2000; 2000DE-1019173.
 XX (EPIG-) EPIGENOMICS AG.
 XX Olek A, Piepenbrock C, Berlin K;
 XX WPI; 2001-657177/75.
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 XX designed to detect single nucleotide polymorphisms and cytosine
 XX methylation status -
 XX Claim 1; SEQ ID 142167; 29pp + Sequence Listing; German.
 XX This invention describes novel oligonucleotide primers or peptide nucleic
 XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 XX and cytosine methylation status in chemically pretreated genomic DNA. The
 XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 XX range of diseases including immune system, gastrointestinal, respiratory,
 XX central nervous system, cardiovascular and metabolic disorders. The
 XX oligomers are also used for detecting cell type differentiation.
 XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 XX AB100010-AB182073 represent the oligomers described in the invention.
 XX NOTE: The sequence data for this patent did not form part of the printed
 XX specification, but was obtained in electronic format from WIPO at
 XX ftp.wipo.int/pub/published_pct_sequences.
 XX Sequence 13 BP; 2 A; 1 C; 8 G; 2 T; 0 Other;
 XX This invention describes novel oligonucleotide primers or peptide nucleic
 XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 XX and cytosine methylation status in chemically pretreated genomic DNA. The
 XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 XX range of diseases including immune system, gastrointestinal, respiratory,
 XX central nervous system, cardiovascular and metabolic disorders. The
 XX oligomers are also used for detecting cell type differentiation.
 XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 XX AB100010-AB182073 represent the oligomers described in the invention.
 XX NOTE: The sequence data for this patent did not form part of the printed
 XX specification, but was obtained in electronic format from WIPO at
 XX ftp.wipo.int/pub/published_pct_sequences.
 XX Sequence 13 BP; 2 A; 1 C; 8 G; 2 T; 0 Other;
 XX Query Match 8.2%; Score 11.4; DB 1; Length 13;
 XX Best Local Similarity 92.3%; Pred. No. 2.1e-02;
 XX Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1737 TCCCAACTCCTCC 1749
 Db 13 TCCCAACGCTCC 1
 RESULT 240
 ABF42171
 ID ABF42171 standard; DNA; 13 BP.
 AC ABF42171;
 XX 21-FEB-2002 (first entry)
 DE Oligonucleotide SEQ ID NO 142168 for detecting SNP TSC0035612.
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX Homo sapiens.
 XX WO200177384-A2.
 XX 18-OCT-2001.
 XX 06-APR-2001; 2001WO-IB00713.
 XX 07-APR-2000; 2000DE-1019173.

XX (EPIG-) EPIGENOMICS AG.
 XX Olek A, Piepenbrock C, Berlin K;
 XX WPI; 2001-657177/75.
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 XX designed to detect single nucleotide polymorphisms and cytosine
 XX methylation status -
 XX Claim 1; SEQ ID 142168; 29pp + Sequence Listing; German.
 XX This invention describes novel oligonucleotide primers or peptide nucleic
 XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 XX and cytosine methylation status in chemically pretreated genomic DNA. The
 XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 XX range of diseases including immune system, gastrointestinal, respiratory,
 XX central nervous system, cardiovascular and metabolic disorders. The
 XX oligomers are also used for detecting cell type differentiation.
 XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 XX AB100010-AB182073 represent the oligomers described in the invention.
 XX NOTE: The sequence data for this patent did not form part of the printed
 XX specification, but was obtained in electronic format from WIPO at
 XX ftp.wipo.int/pub/published_pct_sequences.
 XX Sequence 13 BP; 2 A; 8 C; 1 G; 2 T; 0 Other;
 XX Query Match 8.2%; Score 11.4; DB 1; Length 13;
 XX Best Local Similarity 92.3%; Pred. No. 2.1e-02;
 XX Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1737 TCCCAACTCCTCC 1749
 Db 1 TCCCAACGCTCC 13
 RESULT 241
 ABF62158
 ID ABF62158 standard; DNA; 13 BP.
 AC ABF62158;
 XX 22-FEB-2002 (first entry)
 DE Oligonucleotide SEQ ID NO 162155 for detecting SNP TSC0040797.
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX Homo sapiens.
 XX WO200177384-A2.
 XX 18-OCT-2001.
 XX 06-APR-2001; 2001WO-IB00713.
 XX 07-APR-2000; 2000DE-1019173.
 XX (EPIG-) EPIGENOMICS AG.
 XX Olek A, Piepenbrock C, Berlin K;
 XX WPI; 2001-657177/75.
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 XX designed to detect single nucleotide polymorphisms and cytosine
 XX methylation status -
 XX Claim 1; SEQ ID 162155; 29pp + Sequence Listing; German.

CC ABI00010-ABI82073 represent the oligomers described in the invention.
 CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.
 XX
 SQ Sequence 13 BP; 2 A; 8 C; 0 G; 3 T; 0 other;
 Query Match 8.2%; Score 11.4; DB 1; Length 13;
 Best Local Similarity 92.3%; Pred. No. 2.1e+02;
 Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1738 CCCAACTCCTCC 1750
 |||||
 1 CCTAATCCTCC 13
 DB
 RESULT 237
 ABF42168/c
 ID ABF42168 standard; DNA; 13 BP.
 XX
 AC ABF42168;
 XX
 DT 21-FEB-2002 (first entry)
 XX
 DE Oligonucleotide SEQ ID NO 142165 for detecting SNP TSC0035612.
 XX
 KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX
 OS Homo sapiens.
 XX
 PN WO200177384-A2.
 XX
 PD 18-OCT-2001.
 XX
 PF 06-APR-2001; 2001WO-IB00713.
 XX
 PR 07-APR-2000; 2000DE-1019173.
 XX
 PA (EPIG-) EPIGENOMICS AG.
 XX
 PI Olek A, Piepenbrock C, Berlin K;
 XX
 WIPI; 2001-657177/75.
 XX
 Set of oligonucleotides, useful for diagnosis and cell typing, is
 designed to detect single nucleotide polymorphisms and cytosine
 methylation status -
 XX
 Claim 1; SEQ ID 142165; 29pp + Sequence Listing; German.
 XX
 This invention describes novel oligonucleotide primers or peptide nucleic
 acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 and cytosine methylation status in chemically pretreated genomic DNA. The
 oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 range of diseases including immune system, gastrointestinal, respiratory,
 central nervous system, cardiovascular and metabolic disorders. The
 oligomers are also used for detecting cell type differentiation.
 CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 CC ABI00010-ABI82073 represent the oligomers described in the invention.
 CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.
 XX
 SQ Sequence 13 BP; 2 A; 8 C; 0 G; 3 T; 0 other;
 Query Match 8.2%; Score 11.4; DB 1; Length 13;
 Best Local Similarity 92.3%; Pred. No. 2.1e+02;
 Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1737 TCCCAACTCCTCC 1749
 |||||
 1 TCCCAACTCCTCC 13
 DB
 RESULT 239
 ABF42170/c
 ID ABF42170 standard; DNA; 13 BP.
 XX
 AC ABF42170;
 XX
 DT 21-FEB-2002 (first entry)
 XX
 DE Oligonucleotide SEQ ID NO 142167 for detecting SNP TSC0035612.
 XX

Db 13 TCCCAACTCCTCC 1
 RESULT 238
 ABF42169
 ID ABF42169 standard; DNA; 13 BP.
 XX
 AC ABF42169;
 XX
 DT 21-FEB-2002 (first entry)
 XX
 DE Oligonucleotide SEQ ID NO 142166 for detecting SNP TSC0035612.
 XX
 KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX
 OS Homo sapiens.
 XX
 PN WO200177384-A2.
 XX
 PD 18-OCT-2001.
 XX
 PF 06-APR-2001; 2001WO-IB00713.
 XX
 PR 07-APR-2000; 2000DE-1019173.
 XX
 PA (EPIG-) EPIGENOMICS AG.
 XX
 PI Olek A, Piepenbrock C, Berlin K;
 XX
 WIPI; 2001-657177/75.
 XX
 Set of oligonucleotides, useful for diagnosis and cell typing, is
 designed to detect single nucleotide polymorphisms and cytosine
 methylation status -
 XX
 Claim 1; SEQ ID 142166; 29pp + Sequence Listing; German.
 XX
 This invention describes novel oligonucleotide primers or peptide nucleic
 acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 and cytosine methylation status in chemically pretreated genomic DNA. The
 oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 range of diseases including immune system, gastrointestinal, respiratory,
 central nervous system, cardiovascular and metabolic disorders. The
 oligomers are also used for detecting cell type differentiation.
 CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 CC ABI00010-ABI82073 represent the oligomers described in the invention.
 CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.
 XX
 SQ Sequence 13 BP; 3 A; 8 C; 0 G; 2 T; 0 other;
 Query Match 8.2%; Score 11.4; DB 1; Length 13;
 Best Local Similarity 92.3%; Pred. No. 2.1e+02;
 Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1737 TCCCAACTCCTCC 1749
 |||||
 1 TCCCAACTCCTCC 13
 DB
 RESULT 239
 ABF42170/c
 ID ABF42170 standard; DNA; 13 BP.
 XX
 AC ABF42170;
 XX
 DT 21-FEB-2002 (first entry)
 XX
 DE Oligonucleotide SEQ ID NO 142167 for detecting SNP TSC0035612.
 XX

designed to detect single nucleotide polymorphisms and cytosine methylation status -

Claim 1; SEQ ID 136183; 29pp + Sequence Listing; German.

This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation.

AB000010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at ftp.wipo.int/pub/published_pct_sequences.

Sequence 13 BP; 3 A; 0 C; 8 G; 2 T; 0 other;

Query Match 8.2%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 2.1e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

1738 CCCAACTCCTCCC 1750

13 CTTAACTCCTCCC 1

RESULT 236

ABF36187

ID ABF36187 standard; DNA; 13 BP.

AC ABF36187;

21-FEB-2002 (first entry)

Oligonucleotide SEQ ID NO 136184 for detecting SNP TSC0034006.

SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.

Homo sapiens.

WO200177384-A2.

18-OCT-2001.

06-APR-2001; 2001WO-IB00713.

07-APR-2000; 2000DE-1019173.

(EPIG-) EPIGENOMICS AG.

Olek A, Piepenbrock C, Berlin K;

WPI; 2001-657177/75.

Set of oligonucleotides, useful for diagnosis and cell typing, is designed to detect single nucleotide polymorphisms and cytosine methylation status -

Claim 1; SEQ ID 136184; 29pp + Sequence Listing; German.

This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation.

AB000010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and

18-OCT-2001.

06-APR-2001; 2001WO-IB00713.

07-APR-2000; 2000DE-1019173.

(EPIG-) EPIGENOMICS AG.

Olek A, Piepenbrock C, Berlin K;

WPI; 2001-657177/75.

Set of oligonucleotides, useful for diagnosis and cell typing, is designed to detect single nucleotide polymorphisms and cytosine methylation status -

Claim 1; SEQ ID 119304; 29pp + Sequence Listing; German.

This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation.

AB000010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at ftp.wipo.int/pub/published_pct_sequences.

Sequence 13 BP; 5 A; 7 C; 0 G; 1 T; 0 other;

Query Match 8.2%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 2.1e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

1699 GTGGAGTTGGT 1711

13 GTGGTAGTTGGT 1

RESULT 235

ABF36186/C

ID ABF36186 standard; DNA; 13 BP.

AC ABF36186;

21-FEB-2002 (first entry)

Oligonucleotide SEQ ID NO 136183 for detecting SNP TSC0034006.

SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.

Homo sapiens.

WO200177384-A2.

18-OCT-2001.

06-APR-2001; 2001WO-IB00713.

07-APR-2000; 2000DE-1019173.

(EPIG-) EPIGENOMICS AG.

Olek A, Piepenbrock C, Berlin K;

WPI; 2001-657177/75.

Set of oligonucleotides, useful for diagnosis and cell typing, is designed to detect single nucleotide polymorphisms and cytosine methylation status -

Claim 1; SEQ ID 136184; 29pp + Sequence Listing; German.

This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation.

Best Local Similarity 92.3%; Pred. No. 2.1e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1739 CCAACTCCTCCCT 1751
Db 13 CCTACTCCTCCCT 1

RESULT 232
ABF19171
ID ABF19171 standard; DNA; 13 BP.
XX AC ABF19171;
XX DT 21-FEB-2002 (first entry)
XX DE Oligonucleotide SEQ ID NO 119168 for detecting SNP TSC0029760.
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX OS Homo sapiens.
XX WO200177384-A2.
XX PD 18-OCT-2001.
XX PF 06-APR-2001; 2001WO-IB00713.
XX PR 07-APR-2000; 2000DE-1019173.
XX PA (EPiG-) EPIGENOMICS AG.
XX PI Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX Claim 1; SEQ ID 119168; 29pp + Sequence Listing; German.
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABI00010-ABI82073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX Sequence 13 BP; 1 A; 8 C; 0 G; 4 T; 0 other;

Query Match 8.2%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 2.1e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1739 CCAACTCCTCCCT 1751
Db 1 CCTACTCCTCCCT 13

RESULT 233
ABF19306
ID ABF19306 standard; DNA; 13 BP.
XX AC ABF19306;

Query Match 8.2%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 2.1e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1739 CCAACTCCTCCCT 1751
Db 1 CCTACTCCTCCCT 13

RESULT 234
ABF19307/C
ID ABF19307 standard; DNA; 13 BP.
XX AC ABF19307;
XX DT 21-FEB-2002 (first entry)
XX DE Oligonucleotide SEQ ID NO 119304 for detecting SNP TSC0029792.
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX OS Homo sapiens.
XX WO200177384-A2.
XX PN

XX 21-FEB-2002 (first entry)
XX Oligonucleotide SEQ ID NO 119303 for detecting SNP TSC0029792.
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX OS Homo sapiens.
XX WO200177384-A2.
XX PD 18-OCT-2001.
XX PF 06-APR-2001; 2001WO-IB00713.
XX PR 07-APR-2000; 2000DE-1019173.
XX PA (EPiG-) EPIGENOMICS AG.
XX PI Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX Claim 1; SEQ ID 119303; 29pp + Sequence Listing; German.
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABI00010-ABI82073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX Sequence 13 BP; 1 A; 8 C; 7 G; 5 T; 0 other;

Query Match 8.2%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 2.1e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1699 GTGGAGTGTGGGT 1711
Db 1 GTGGTAGTGGGT 13

RESULT 234
ABF19307/C
ID ABF19307 standard; DNA; 13 BP.
XX AC ABF19307;
XX DT 21-FEB-2002 (first entry)
XX DE Oligonucleotide SEQ ID NO 119304 for detecting SNP TSC0029792.
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX OS Homo sapiens.
XX WO200177384-A2.
XX PN

PI Olek A, Piepenbrock C, Berlin K;
 DR WPI; 2001-657177/75.
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single nucleotide polymorphisms and cytosine
 PT methylation status -
 XX Claim 1; SEQ ID 116649; 29pp + Sequence Listing; German.
 PS
 XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation.
 CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 CC ABI00010-ABI82073 represent the oligomers described in the invention.
 CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.
 XX
 XX Sequence 13 BP; 3 A; 7 C; 0 G; 3 T; 0 other;
 SQ
 Query Match 8.2%; Score 11.4; DB 1; Length 13;
 Best Local Similarity 92.3%; Pred. No. 2.1e+02;
 Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1739 CCAACTCTCCCT 1751
 DB 1 CCAACTACTCCCT 13
 RESULT 231
 ABF19170/c
 ID ABF19170 standard; DNA; 13 BP.
 XX
 AC ABF19170;
 XX
 XX 21-FEB-2002 (first entry)
 XX
 XX Oligonucleotide SEQ ID NO 119167 for detecting SNP TSC0029760.
 DE
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX
 OS Homo sapiens.
 XX
 PN WO200177384-A2.
 XX
 PD 18-OCT-2001.
 XX
 PF 06-APR-2001; 2001WO-IB00713.
 XX
 PR 07-APR-2000; 2000DE-1019173.
 PA (EPIG-) EPIGENOMICS AG.
 XX
 XX Olek A, Piepenbrock C, Berlin K;
 XX
 XX WPI; 2001-657177/75.
 DR
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single nucleotide polymorphisms and cytosine
 PT methylation status -
 XX Claim 1; SEQ ID 119167; 29pp + Sequence Listing; German.
 PS
 XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation.
 CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 CC ABI00010-ABI82073 represent the oligomers described in the invention.
 CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.
 XX
 XX Sequence 13 BP; 4 A; 0 C; 8 G; 1 T; 0 other;
 SQ
 Query Match 8.2%; Score 11.4; DB 1; Length 13;
 XX

PI Olek A, Piepenbrock C, Berlin K;
 DR WPI; 2001-657177/75.
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single nucleotide polymorphisms and cytosine
 PT methylation status -
 XX Claim 1; SEQ ID 116649; 29pp + Sequence Listing; German.
 PS
 XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation.
 CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 CC ABI00010-ABI82073 represent the oligomers described in the invention.
 CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.
 XX
 XX Sequence 13 BP; 3 A; 0 C; 7 G; 3 T; 0 other;
 SQ
 Query Match 8.2%; Score 11.4; DB 1; Length 13;
 Best Local Similarity 92.3%; Pred. No. 2.1e+02;
 Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1739 CCAACTCTCCCT 1751
 DB 13 CCAACTACTCCCT 1
 RESULT 230
 ABF16653
 ID ABF16653 standard; DNA; 13 BP.
 XX
 AC ABF16653;
 XX
 XX 21-FEB-2002 (first entry)
 XX
 XX Oligonucleotide SEQ ID NO 116650 for detecting SNP TSC0029189.
 DE
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX
 OS Homo sapiens.
 XX
 PN WO200177384-A2.
 XX
 PD 18-OCT-2001.
 XX
 PF 06-APR-2001; 2001WO-IB00713.
 XX
 PR 07-APR-2000; 2000DE-1019173.
 PA (EPIG-) EPIGENOMICS AG.
 XX
 XX Olek A, Piepenbrock C, Berlin K;
 XX
 XX WPI; 2001-657177/75.
 DR
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single nucleotide polymorphisms and cytosine
 PT methylation status -
 XX Claim 1; SEQ ID 116650; 29pp + Sequence Listing; German.
 PS
 XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The

```

RESULT 227
ABF15452/C
ID ABF15452 standard; DNA; 13 BP.
XX
XX ABF15452;
XX
XX
XX
XX 21-FEB-2002 (first entry)
XX
XX Oligonucleotide SEQ ID NO 115443 for detecting SNP TSC0028931.
DE
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
XX (EPIG-) EPIGENOMICS AG.
XX
XX Olek A. Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status -
XX
XX Claim 1; SEQ ID 115449; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABC9989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX ABI00010-ABI82073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 13 BP; 3 A; 0 C; 9 G; 1 T; 0 other;
XX
Query Match 8.2%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 2.1e-02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
QY 1739 CCAACTCCCTCCCT 1751
DB 13 CCCACTCCCTCCCT 1
XX
RESULT 228
ABF15453
ID ABF15453 standard; DNA; 13 BP.
XX
XX ABF15453;
XX
XX
XX 21-FEB-2002 (first entry)
XX
XX Oligonucleotide SEQ ID NO 115450 for detecting SNP TSC0028931.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX

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PS Claim 1; SEQ ID 110340; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation.

CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and

CC ABT00010-ABT82073 represent the oligomers described in the invention.

CC NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at

CC ftp.wipo.int/pub/published_pct_sequences.

XX

SQ Sequence 13 BP; 3 A; 6 C; 0 G; 4 T; 0 other;

Query Match 8.2%; Score 11.4; DB 1; Length 13;

Best Local Similarity 92.3%; Pred. No. 2.1e+02;

Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1701 GGAAAGTTGGGTTA 1713

Db 13 GGAAAGTTGGGTTA 1

RESULT 225

ABF10344

ID ABF10344 standard; DNA; 13 BP.

AC ABF10344;

XX

DT 21-FEB-2002 (first entry)

XX

DE Oligonucleotide SEQ ID NO 110341 for detecting SNP TSC0027562.

XX

SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;

KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

KW central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX

OS Homo sapiens.

XX

WO200177384-A2.

PN

XX

PD 18-OCT-2001.

XX

PF 06-APR-2001; 2001WO-IB00713.

XX

PR 07-APR-2000; 2000DE-1019173.

XX

PA (EPIG-) EPIGENOMICS AG.

XX

PI Olek A, Piepenbrock C, Berlin K;

XX

WPI; 2001-657177/75.

DR

XX

WO200177384-A2.

PN

XX

PD 18-OCT-2001.

XX

PF 06-APR-2001; 2001WO-IB00713.

XX

PR 07-APR-2000; 2000DE-1019173.

XX

PA (EPIG-) EPIGENOMICS AG.

XX

PI Olek A, Piepenbrock C, Berlin K;

XX

WPI; 2001-657177/75.

DR

XX

Set of oligonucleotides, useful for diagnosis and cell typing, is

PT designed to detect single nucleotide polymorphisms and cytosine

PT methylation status -

XX

Claim 1; SEQ ID 110341; 29pp + Sequence Listing; German.

XX

This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation.

CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and

CC ABT00010-ABT82073 represent the oligomers described in the invention.

CC NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at

CC ftp.wipo.int/pub/published_pct_sequences.

XX

SQ Sequence 13 BP; 3 A; 7 C; 0 G; 3 T; 0 other;

Query Match 8.2%; Score 11.4; DB 1; Length 13;

Best Local Similarity 92.3%; Pred. No. 2.1e+02;

Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1701 GGAAAGTTGGGTTA 1713

Db 13 GGAAAGTTGGGTTA 1

RESULT 226

ABF10345/C

ID ABF10345 standard; DNA; 13 BP.

AC ABF10345;

XX

DT 21-FEB-2002 (first entry)

XX

DE Oligonucleotide SEQ ID NO 110342 for detecting SNP TSC0027562.

XX

SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;

KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

KW central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX

OS Homo sapiens.

XX

WO200177384-A2.

PN

XX

PD 18-OCT-2001.

XX

PF 06-APR-2001; 2001WO-IB00713.

XX

PR 07-APR-2000; 2000DE-1019173.

XX

PA (EPIG-) EPIGENOMICS AG.

XX

PI Olek A, Piepenbrock C, Berlin K;

XX

WPI; 2001-657177/75.

DR

XX

Set of oligonucleotides, useful for diagnosis and cell typing, is

PT designed to detect single nucleotide polymorphisms and cytosine

PT methylation status -

XX

Claim 1; SEQ ID 110342; 29pp + Sequence Listing; German.

XX

This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation.

CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and

CC ABT00010-ABT82073 represent the oligomers described in the invention.

CC NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at

CC ftp.wipo.int/pub/published_pct_sequences.

XX

SQ Sequence 13 BP; 3 A; 7 C; 0 G; 3 T; 0 other;

Query Match 8.2%; Score 11.4; DB 1; Length 13;

Best Local Similarity 92.3%; Pred. No. 2.1e+02;

Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1701 GGAAAGTTGGGTTA 1713

Db 13 GGAAAGTTGGGTTA 1

CC ftp.wipo.int/pub/published_pct_sequences.

XX

SQ Sequence 13 BP; 3 A; 0 C; 7 G; 3 T; 0 other;

Query Match 8.2%; Score 11.4; DB 1; Length 13;

Best Local Similarity 92.3%; Pred. No. 2.1e+02;

Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1701 GGAAAGTTGGGTTA 1713

Db 1 GGAAAGTTGGGTTA 13

RESULT 226

ABF10345/C

ID ABF10345 standard; DNA; 13 BP.

AC ABF10345;

XX

DT 21-FEB-2002 (first entry)

XX

DE Oligonucleotide SEQ ID NO 110342 for detecting SNP TSC0027562.

XX

SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;

KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

KW central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX

OS Homo sapiens.

XX

WO200177384-A2.

PN

XX

PD 18-OCT-2001.

XX

PF 06-APR-2001; 2001WO-IB00713.

XX

PR 07-APR-2000; 2000DE-1019173.

XX

PA (EPIG-) EPIGENOMICS AG.

XX

PI Olek A, Piepenbrock C, Berlin K;

XX

WPI; 2001-657177/75.

DR

XX

Set of oligonucleotides, useful for diagnosis and cell typing, is

PT designed to detect single nucleotide polymorphisms and cytosine

PT methylation status -

XX

Claim 1; SEQ ID 110342; 29pp + Sequence Listing; German.

XX

This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation.

CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and

CC ABT00010-ABT82073 represent the oligomers described in the invention.

CC NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at

CC ftp.wipo.int/pub/published_pct_sequences.

XX

SQ Sequence 13 BP; 3 A; 7 C; 0 G; 3 T; 0 other;

Query Match 8.2%; Score 11.4; DB 1; Length 13;

Best Local Similarity 92.3%; Pred. No. 2.1e+02;

Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1701 GGAAAGTTGGGTTA 1713

Db 13 GGAAAGTTGGGTTA 1

```

DE Oligonucleotide SEQ ID NO 93134 for detecting SNP TSC00232277.
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX Homo sapiens.
XX WO200177384-A2.
XX 18-OCT-2001.
XX 06-APR-2001; 2001WO-IB00713.
XX 07-APR-2000; 2000DE-1019173.
XX (EPIG-) EPIGENOMICS AG.
XX Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX Claim 1; SEQ ID 93134; 29pp + Sequence Listing; German.
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABI00010-ABI82073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX Sequence 13 BP; 2 A; 9 C; 1 G; 1 T; 0 other;
XX Query Match 8.2%; Score 11.4; DB 1; Length 13;
XX Best Local Similarity 92.3%; Pred. No. 2.le+02;
XX Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 1738 CCCAATCCTCCC 1750
DB 1 CCCAATCCTCCC 13
RESULT 223
ABF10342
ID ABF10342 standard; DNA; 13 BP.
XX AC ABF10342;
XX 21-FEB-2002 (first entry)
DE Oligonucleotide SEQ ID NO 110339 for detecting SNP TSC0027562.
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX Homo sapiens.
XX WO200177384-A2.
XX 18-OCT-2001.
XX 06-APR-2001; 2001WO-IB00713.
DE Oligonucleotide SEQ ID NO 110339 for detecting SNP TSC0027562.
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX Homo sapiens.
XX WO200177384-A2.
XX 18-OCT-2001.
XX 06-APR-2001; 2001WO-IB00713.

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XX 07-APR-2000; 2000DE-1019173.
XX (EPIG-) EPIGENOMICS AG.
XX Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX Claim 1; SEQ ID 110339; 29pp + Sequence Listing; German.
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABI00010-ABI82073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX Sequence 13 BP; 4 A; 0 C; 6 G; 3 T; 0 other;
XX Query Match 8.2%; Score 11.4; DB 1; Length 13;
XX Best Local Similarity 92.3%; Pred. No. 2.le+02;
XX Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 1701 GGAAGTGGGTGA 1713
DB 1 GGAAGTGGGTGA 13
RESULT 224
ABF10343/c
ID ABF10343 standard; DNA; 13 BP.
XX AC ABF10343;
XX 21-FEB-2002 (first entry)
DE Oligonucleotide SEQ ID NO 110340 for detecting SNP TSC0027562.
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX Homo sapiens.
XX WO200177384-A2.
XX 18-OCT-2001.
XX 06-APR-2001; 2001WO-IB00713.
XX 07-APR-2000; 2000DE-1019173.
XX (EPIG-) EPIGENOMICS AG.
XX Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX 06-APR-2001; 2001WO-IB00713.

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CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABH00010-ABH82073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 13 BP; 1 A; 0 C; 9 G; 3 T; 0 other;

Query Match 8.2%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 2.1e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1738 CCCAACTCCTCCC 1750
Db 13 CCCAACACCTCCC 1

RESULT 220
ABC93115
ID ABC93115 standard; DNA; 13 BP.
XX
AC ABC93115;
XX
DT 21-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 93132 for detecting SNP TSC0023277.
XX
KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB00713.
XX
PR 07-APR-2000; 2000DE-1019173.
XX
PA (EPIG-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
WPI; 2001-657177/75.
XX
Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX
Claim 1; SEQ ID 93132; 29pp + Sequence Listing; German.
XX
This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABH00010-ABH82073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 13 BP; 3 A; 9 C; 0 G; 1 T; 0 other;

Query Match 8.2%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 2.1e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1738 CCCAACTCCTCCC 1750
Db 13 CCCAACACCTCCC 1

RESULT 220
ABC93117
ID ABC93117 standard; DNA; 13 BP.
XX
AC ABC93117;
XX
DT 21-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 93133 for detecting SNP TSC0023277.
XX
KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB00713.
XX
PR 07-APR-2000; 2000DE-1019173.
XX
PA (EPIG-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
WPI; 2001-657177/75.
XX
Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX
Claim 1; SEQ ID 93133; 29pp + Sequence Listing; German.
XX
This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABH00010-ABH82073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 13 BP; 1 A; 1 C; 9 G; 2 T; 0 other;

Query Match 8.2%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 2.1e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1738 CCCAACTCCTCCC 1750
Db 13 CCCAACACCTCCC 1

RESULT 222
ABC93117
ID ABC93117 standard; DNA; 13 BP.
XX
AC ABC93117;
XX
DT 21-FEB-2002 (first entry)
XX

QY 1738 CCCAACTCCTCCC 1750
Db 1 CCCAACACCTCCC 13

RESULT 221
ABC93116/c
ID ABC93116 standard; DNA; 13 BP.
XX
AC ABC93116;
XX
DT 21-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 93133 for detecting SNP TSC0023277.
XX
KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB00713.
XX
PR 07-APR-2000; 2000DE-1019173.
XX
PA (EPIG-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
WPI; 2001-657177/75.
XX
Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX
Claim 1; SEQ ID 93133; 29pp + Sequence Listing; German.
XX
This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABH00010-ABH82073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 13 BP; 1 A; 1 C; 9 G; 2 T; 0 other;

Query Match 8.2%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 2.1e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1738 CCCAACTCCTCCC 1750
Db 13 CCCAACACCTCCC 1

RESULT 222
ABC93117
ID ABC93117 standard; DNA; 13 BP.
XX
AC ABC93117;
XX
DT 21-FEB-2002 (first entry)
XX

PN WO200177384-A2.
 XX
 PD 18-OCT-2001.
 XX
 PP 06-APR-2001; 2001WO-IB00713.
 XX
 PR 07-APR-2000; 2000DE-1019173.
 XX
 PA (EPIG-) EPIGENOMICS AG.
 XX
 PI Olek A, Piepenbrock C, Berlin K;
 XX
 DR WPI; 2001-657177/75.
 XX
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single nucleotide polymorphisms and cytosine
 PT methylation status -
 XX
 XX Claim 1; SEQ ID 93129; 29pp + Sequence Listing; German.
 XX
 XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation.
 CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 CC ABI00010-ABI82073 represent the oligomers described in the invention.
 CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.
 XX
 XX Sequence 13 BP; 2 A; 10 C; 10 G; 2 T; 0 other;
 XX
 XX Query Match 8.2%; Score 11.4; DB 1; Length 13;
 XX Best Local Similarity 92.3%; Pred. No. 2.1e+02;
 XX Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1738 CCCAACTCTCTCCC 1750
 Db 13 CCCAACCCCTCCC 1
 RESULT 218
 ABC93113
 ID ABC93113 standard; DNA; 13 BP.
 XX
 AC ABC93113;
 XX
 DT 21-FEB-2002 (first entry)
 XX
 DE Oligonucleotide SEQ ID NO 93130 for detecting SNP TSC0023277.
 XX
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX
 OS Homo sapiens.
 XX
 XX WO200177384-A2.
 XX
 XX 18-OCT-2001.
 XX
 XX 06-APR-2001; 2001WO-IB00713.
 XX
 XX 07-APR-2000; 2000DE-1019173.
 XX
 XX (EPIG-) EPIGENOMICS AG.
 XX
 XX Olek A, Piepenbrock C, Berlin K;
 XX
 XX WPI; 2001-657177/75.
 XX
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single nucleotide polymorphisms and cytosine
 PT methylation status -
 XX
 XX Claim 1; SEQ ID 93131; 29pp + Sequence Listing; German.
 XX
 XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation.
 CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 CC ABI00010-ABI82073 represent the oligomers described in the invention.
 CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.
 XX
 XX Sequence 13 BP; 1 A; 0 C; 10 G; 2 T; 0 other;
 XX
 XX Query Match 8.2%; Score 11.4; DB 1; Length 13;
 XX Best Local Similarity 92.3%; Pred. No. 2.1e+02;
 XX Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1738 CCCAACTCTCTCCC 1750
 Db 13 CCCAACCCCTCCC 1
 RESULT 218
 ABC93113
 ID ABC93113 standard; DNA; 13 BP.
 XX
 AC ABC93113;
 XX
 DT 21-FEB-2002 (first entry)
 XX
 DE Oligonucleotide SEQ ID NO 93130 for detecting SNP TSC0023277.
 XX
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX
 OS Homo sapiens.
 XX
 XX WO200177384-A2.
 XX
 XX 18-OCT-2001.
 XX
 XX 06-APR-2001; 2001WO-IB00713.
 XX
 XX 07-APR-2000; 2000DE-1019173.
 XX
 XX (EPIG-) EPIGENOMICS AG.
 XX
 XX Olek A, Piepenbrock C, Berlin K;
 XX
 XX WPI; 2001-657177/75.
 XX

RESULT 216

PA (EPIG-) EPIGENOMICS AG.
 XX Olek A, Piepenbrock C, Berlin K;
 PI WPI; 2001-657177/75.
 DR
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single nucleotide polymorphisms and cytosine
 PT methylation status -
 XX Claim 1; SEQ ID 70368; 29pp + Sequence Listing; German.
 PS
 XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation.
 CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 CC ABI00010-ABI82073 represent the oligomers described in the invention.
 CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.
 XX
 XX Sequence 13 BP; 2 A; 7 C; 0 G; 4 T; 0 other;
 SQ
 Query Match 8.2%; Score 11.4; DB 1; Length 13;
 Best Local Similarity 92.3%; Pred. No. 2.1e+02;
 Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1739 CCAACTCTCTCCCT 1751
 Db 1 CCAACTCTCTCCCT 13
 RESULT 213
 ABC94686
 ID ABC84686 standard; DNA; 13 BP.
 XX
 AC ABC84686;
 DT 21-FEB-2002 (first entry)
 XX
 DE Oligonucleotide SEQ ID NO 84703 for detecting SNP TSC0021323.
 XX
 KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX
 OS Homo sapiens.
 XX
 W0200177384-A2.
 PD 18-OCT-2001.
 XX
 PF 06-APR-2001; 2001WO-IB00713.
 XX
 PR 07-APR-2000; 2000DE-1019173.
 XX
 XX (EPIG-) EPIGENOMICS AG.
 XX Olek A, Piepenbrock C, Berlin K;
 PI WPI; 2001-657177/75.
 DR
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single nucleotide polymorphisms and cytosine
 PT methylation status -
 XX Claim 1; SEQ ID 84703; 29pp + Sequence Listing; German.
 PS
 XX This invention describes novel oligonucleotide primers or peptide nucleic

CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation.
 CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 CC ABI00010-ABI82073 represent the oligomers described in the invention.
 CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.
 XX
 XX Sequence 13 BP; 5 A; 0 C; 7 G; 1 T; 0 other;
 SQ
 Query Match 8.2%; Score 11.4; DB 1; Length 13;
 Best Local Similarity 92.3%; Pred. No. 2.1e+02;
 Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1719 ACGGAGATGGAGA 1731
 Db 1 ACGGAGATGGAGA 13
 RESULT 214
 ABC84687/C
 ID ABC84687 standard; DNA; 13 BP.
 XX
 AC ABC84687;
 DT 21-FEB-2002 (first entry)
 XX
 DE Oligonucleotide SEQ ID NO 84704 for detecting SNP TSC0021323.
 XX
 KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX
 OS Homo sapiens.
 XX
 W0200177384-A2.
 PD 18-OCT-2001.
 XX
 PF 06-APR-2001; 2001WO-IB00713.
 XX
 PR 07-APR-2000; 2000DE-1019173.
 XX
 XX (EPIG-) EPIGENOMICS AG.
 XX Olek A, Piepenbrock C, Berlin K;
 PI WPI; 2001-657177/75.
 DR
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single nucleotide polymorphisms and cytosine
 PT methylation status -
 XX Claim 1; SEQ ID 84704; 29pp + Sequence Listing; German.
 PS
 XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation.
 CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 CC ABI00010-ABI82073 represent the oligomers described in the invention.
 CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.
 XX
 XX Sequence 13 BP; 1 A; 7 C; 0 G; 5 T; 0 other;
 SQ

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RESULT 210
ABC65199/c
ID ID ABC65199 standard; DNA; 13 BP.
XX AC ABC65199;
XX AC ABC65199;
XX DT 21-FEB-2002 (first entry)
XX DE Oligonucleotide SEQ ID NO 65216 for detecting SNP TSC0017166.
XX SN; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX OS Homo sapiens.
XX WO200177384-A2.
XX PN 18-OCT-2001.
XX PD 06-APR-2001; 2001WO-IB00713.
XX PF 07-APR-2000; 2000DE-1019173.
XX PR (EPIG-) EPIGENOMICS AG.
XX PA Olek A, Piepenbrock C, Berlin K;
XX PI WPI; 2001-657177/75.
XX DR Set of oligonucleotides, useful for diagnosis and cell typing, is
XX PT designed to detect single nucleotide polymorphisms and cytosine
XX PT methylation status
XX PT Claim 1; SEQ ID 65216; 29pp + Sequence Listing; German.
XX PS This invention describes novel oligonucleotide primers or peptide nucleic
XX CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX CC and cytosine methylation status in chemically pretreated genomic DNA. The
XX CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX CC range of diseases including immune system, gastrointestinal, respiratory,
XX CC central nervous system, cardiovascular and metabolic disorders. The
XX CC oligomers are also used for detecting cell type differentiation.
XX CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX CC ABI00010-ABI82073 represent the oligomers described in the invention.
XX CC NOTE: The sequence data for this patent did not form part of the printed
XX CC specification, but was obtained in electronic format from WIPO at
XX CC ftp.wipo.int/pub/published_pct_sequences.
XX SQ Sequence 13 BP; 4 A; 7 C; 0 G; 2 T; 0 other;
XX Query Match 8.2%; Score 11.4; DB 1; Length 13;
XX Best Local Similarity 92.3%; Pred. No. 2.1e+02;
XX Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
XX QY 1701 GGAAGTTGGGTTA 1713
XX DB 13 GGAAGTTGGGTTA 1
XX
RESULT 211
ABC70350/c
ID ID ABC70350 standard; DNA; 13 BP.
XX AC ABC70350;
XX AC ABC70350;
XX DT 21-FEB-2002 (first entry)
XX DE Oligonucleotide SEQ ID NO 70367 for detecting SNP TSC0018290.
XX SN; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX OS Homo sapiens.
XX WO200177384-A2.
XX PN 18-OCT-2001.
XX PD 06-APR-2001; 2001WO-IB00713.
XX PF 07-APR-2000; 2000DE-1019173.
XX PR (EPIG-) EPIGENOMICS AG.
XX PA Olek A, Piepenbrock C, Berlin K;
XX PI WPI; 2001-657177/75.
XX DR Set of oligonucleotides, useful for diagnosis and cell typing, is
XX PT designed to detect single nucleotide polymorphisms and cytosine
XX PT methylation status
XX PT Claim 1; SEQ ID 65216; 29pp + Sequence Listing; German.
XX PS This invention describes novel oligonucleotide primers or peptide nucleic
XX CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX CC and cytosine methylation status in chemically pretreated genomic DNA. The
XX CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX CC range of diseases including immune system, gastrointestinal, respiratory,
XX CC central nervous system, cardiovascular and metabolic disorders. The
XX CC oligomers are also used for detecting cell type differentiation.
XX CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX CC ABI00010-ABI82073 represent the oligomers described in the invention.
XX CC NOTE: The sequence data for this patent did not form part of the printed
XX CC specification, but was obtained in electronic format from WIPO at
XX CC ftp.wipo.int/pub/published_pct_sequences.
XX SQ Sequence 13 BP; 4 A; 7 C; 0 G; 2 T; 0 other;
XX Query Match 8.2%; Score 11.4; DB 1; Length 13;
XX Best Local Similarity 92.3%; Pred. No. 2.1e+02;
XX Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
XX QY 1701 GGAAGTTGGGTTA 1713
XX DB 13 GGAAGTTGGGTTA 1
XX
RESULT 212
ABC70351
ID ID ABC70351 standard; DNA; 13 BP.
XX AC ABC70351;
XX AC ABC70351;
XX DT 21-FEB-2002 (first entry)
XX DE Oligonucleotide SEQ ID NO 70368 for detecting SNP TSC0018290.
XX SN; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX OS Homo sapiens.
XX WO200177384-A2.
XX PN 18-OCT-2001.
XX PD 06-APR-2001; 2001WO-IB00713.
XX PF 07-APR-2000; 2000DE-1019173.
XX PR C7-APR-2000; 2000DE-1019173.
XX

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KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX OS Homo sapiens.
XX WO200177384-A2.
XX PN 18-OCT-2001.
XX PD 06-APR-2001; 2001WO-IB00713.
XX PF 07-APR-2000; 2000DE-1019173.
XX PR (EPIG-) EPIGENOMICS AG.
XX PA Olek A, Piepenbrock C, Berlin K;
XX PI WPI; 2001-657177/75.
XX DR Set of oligonucleotides, useful for diagnosis and cell typing, is
XX PT designed to detect single nucleotide polymorphisms and cytosine
XX PT methylation status
XX PT Claim 1; SEQ ID 70367; 29pp + Sequence Listing; German.
XX PS This invention describes novel oligonucleotide primers or peptide nucleic
XX CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX CC and cytosine methylation status in chemically pretreated genomic DNA. The
XX CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX CC range of diseases including immune system, gastrointestinal, respiratory,
XX CC central nervous system, cardiovascular and metabolic disorders. The
XX CC oligomers are also used for detecting cell type differentiation.
XX CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX CC ABI00010-ABI82073 represent the oligomers described in the invention.
XX CC NOTE: The sequence data for this patent did not form part of the printed
XX CC specification, but was obtained in electronic format from WIPO at
XX CC ftp.wipo.int/pub/published_pct_sequences.
XX SQ Sequence 13 BP; 4 A; 0 C; 7 G; 2 T; 0 other;
XX Query Match 8.2%; Score 11.4; DB 1; Length 13;
XX Best Local Similarity 92.3%; Pred. No. 2.1e+02;
XX Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
XX QY 1739 CCAACTCCTCCCT 1751
XX DB 13 CCAACTCCTCCCT 1
XX
RESULT 212
ABC70351
ID ID ABC70351 standard; DNA; 13 BP.
XX AC ABC70351;
XX AC ABC70351;
XX DT 21-FEB-2002 (first entry)
XX DE Oligonucleotide SEQ ID NO 70368 for detecting SNP TSC0018290.
XX SN; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX OS Homo sapiens.
XX WO200177384-A2.
XX PN 18-OCT-2001.
XX PD 06-APR-2001; 2001WO-IB00713.
XX PF 07-APR-2000; 2000DE-1019173.
XX PR C7-APR-2000; 2000DE-1019173.
XX

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PT methylation status -
XX Claim 1; SEQ ID 62777; 29pp + Sequence Listing; German.
PS
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABI00010-ABI82073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 13 BP; 3 A; 0 C; 8 G; 2 T; 0 other;
SQ
Query Match 8.2%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 2.1e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1745 CCTCCCTATCCTA 1757
DB 13 CCCCCCTATCCTA 1
RESULT 208
ABC62761
ID ABC62761 standard; DNA; 13 BP.
XX
AC ABC62761;
XX
DT 21-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 62778 for detecting SNP TSC0016623.
XX
KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB00713.
XX
PR 07-APR-2000; 2000DE-1019173.
XX
PA (EPIG-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
OS
XX WO200177384-A2.
XX
PN
XX 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB00713.
XX
PR 07-APR-2000; 2000DE-1019173.
XX
PA (EPIG-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
DR WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX
PS Claim 1; SEQ ID 62778; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABI00010-ABI82073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 13 BP; 2 A; 0 C; 8 G; 2 T; 0 other;
SQ
Query Match 8.2%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 2.1e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1701 GGAGTTCGGTTA 1713
DB 1 GGGAGTTCGGTTA 13
RESULT 209
ABC65198
ID ABC65198 standard; DNA; 13 BP.
XX
AC ABC65198;
XX
DT 21-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 65215 for detecting SNP TSC0017166.
XX
KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB00713.
XX
PR 07-APR-2000; 2000DE-1019173.
XX
PA (EPIG-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
DR WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX
PS Claim 1; SEQ ID 65215; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABI00010-ABI82073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 13 BP; 2 A; 0 C; 7 G; 4 T; 0 other;
SQ
Query Match 8.2%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 2.1e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1701 GGAGTTCGGTTA 1713
DB 1 GGGAGTTCGGTTA 13
```



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DT 21-FEB-2002 (first entry)
XX Oligonucleotide SEQ ID NO 62607 for detecting SNP TSC0016595.
DE
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
XX (EPIG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX
XX Claim 1; SEQ ID 62607; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX AB100010-AB182073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 13 BP; 3 A; 0 C; 7 G; 3 T; 0 other;
SQ
Query Match 8.2%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 2.1e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1701 GGAAGTTGGGTTA 1713
Db 1 GGAAGTTGGGTTA 13

RESULT 206
ABC62591/c
ID ABC62591 standard; DNA; 13 BP.
XX
XX ABC62591;
XX
XX 21-FEB-2002 (first entry)
XX
XX Oligonucleotide SEQ ID NO 62608 for detecting SNP TSC0016595.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
XX (EPIG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX
XX Claim 1; SEQ ID 62608; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX AB100010-AB182073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 13 BP; 3 A; 0 C; 7 G; 3 T; 0 other;
SQ
Query Match 8.2%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 2.1e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1701 GGAAGTTGGGTTA 1713
Db 1 GGAAGTTGGGTTA 13

RESULT 206
ABC62591/c
ID ABC62591 standard; DNA; 13 BP.
XX
XX ABC62591;
XX
XX 21-FEB-2002 (first entry)
XX
XX Oligonucleotide SEQ ID NO 62607 for detecting SNP TSC0016595.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
XX (EPIG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX
XX Claim 1; SEQ ID 62607; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX AB100010-AB182073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 13 BP; 3 A; 0 C; 7 G; 3 T; 0 other;
SQ
Query Match 8.2%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 2.1e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1701 GGAAGTTGGGTTA 1713
Db 1 GGAAGTTGGGTTA 13

RESULT 207
ABC62760/c
ID ABC62760 standard; DNA; 13 BP.
XX
XX ABC62760;
XX
XX 21-FEB-2002 (first entry)
XX
XX Oligonucleotide SEQ ID NO 62777 for detecting SNP TSC0016623.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
XX (EPIG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX
XX Claim 1; SEQ ID 62608; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX AB100010-AB182073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 13 BP; 3 A; 0 C; 7 G; 3 T; 0 other;
SQ
Query Match 8.2%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 2.1e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1701 GGAAGTTGGGTTA 1713
Db 13 GGAAGTTGGGTTA 1

RESULT 207
ABC62760/c
ID ABC62760 standard; DNA; 13 BP.
XX
XX ABC62760;
XX
XX 21-FEB-2002 (first entry)
XX
XX Oligonucleotide SEQ ID NO 62777 for detecting SNP TSC0016623.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
XX (EPIG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX
XX Claim 1; SEQ ID 62608; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX AB100010-AB182073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 13 BP; 3 A; 0 C; 7 G; 3 T; 0 other;
SQ
Query Match 8.2%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 2.1e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1701 GGAAGTTGGGTTA 1713
Db 13 GGAAGTTGGGTTA 1

```

CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation.
 CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 CC ABT00010-ABT82073 represent the oligomers described in the invention.
 CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.

XX Sequence 13 BP; 4 A; 7 C; 0 G; 2 T; 0 other;

Query Match 8.2%; Score 11.4; DB 1; Length 13;
 Best Local Similarity 92.3%; Pred. No. 2.1e+02;
 Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1707 TGGGTTGGAGTA 1719
 Db 13 TGGGTTGGAGTA 1
 ||||| |||||

RESULT 203
 ABC49590/c
 ID ABC49590 standard; DNA; 13 BP.

XX AC ABC49590;

XX DT 21-FEB-2002 (first entry)

XX DE Oligonucleotide SEQ ID NO 49607 for detecting SNP TSC0014014.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 XX central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX OS Homo sapiens.

XX PN WO200177384-A2.

XX PD 18-OCT-2001.

XX PF 06-APR-2001; 2001WO-IB00713.

XX PR 07-APR-2000; 2000DE-1019173.

XX PA (EPIG-) EPIGENOMICS AG.

XX PI Olek A, Piepenbrock C, Berlin K;

XX WPI; 2001-657177/75.

XX PT Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single nucleotide polymorphisms and cytosine
 PT methylation status -

XX PS Claim 1; SEQ ID 49607; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation.

CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and

CC ABT00010-ABT82073 represent the oligomers described in the invention.

CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.

XX Sequence 13 BP; 5 A; 0 C; 6 G; 2 T; 0 other;

Query Match 8.2%; Score 11.4; DB 1; Length 13;
 Best Local Similarity 92.3%; Pred. No. 2.1e+02;

Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1745 CCTCCCTATCCTA 1757
 Db 13 CCTCTCTATCCTA 1
 ||||| |||||

RESULT 204

ABC49591

ID ABC49591 standard; DNA; 13 BP.

XX AC ABC49591;

XX DT 21-FEB-2002 (first entry)

XX DE Oligonucleotide SEQ ID NO 49608 for detecting SNP TSC0014014.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 XX central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX OS Homo sapiens.

XX PN WO200177384-A2.

XX PD 18-OCT-2001.

XX PF 06-APR-2001; 2001WO-IB00713.

XX PR 07-APR-2000; 2000DE-1019173.

XX PA (EPIG-) EPIGENOMICS AG.

XX PI Olek A, Piepenbrock C, Berlin K;

XX WPI; 2001-657177/75.

XX PT Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single nucleotide polymorphisms and cytosine
 PT methylation status -

XX PS Claim 1; SEQ ID 49608; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation.

CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and

CC ABT00010-ABT82073 represent the oligomers described in the invention.

CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.

XX Sequence 13 BP; 2 A; 6 C; 0 G; 5 T; 0 other;

Query Match 8.2%; Score 11.4; DB 1; Length 13;
 Best Local Similarity 92.3%; Pred. No. 2.1e+02;
 Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1745 CCTCCCTATCCTA 1757
 Db 1 CCTCTCTATCCTA 13
 ||||| |||||

RESULT 205

ABC62590

ID ABC62590 standard; DNA; 13 BP.

XX AC ABC62590;


```
XX SQ Sequence 13 BP; 4 A; 0 C; 8 G; 1 T; 0 other;
Query Match 8.2%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 2.1e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1739 CCAACTCTCTCCCT 1751
Db 13 CCATCTCTCTCCCT 1

RESULT 198
ABC26849
ID ABC26849 standard; DNA; 13 BP.
XX AC ABC26849;
XX DT 20-FEB-2002 (first entry)
XX DE Oligonucleotide SEQ ID NO 26866 for detecting SNP TSC0007227.
XX KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX OS Homo sapiens.
XX PN WO200177384-A2.
XX PD 18-OCT-2001.
XX PF 06-APR-2001; 2001WO-IB00713.
XX PR 07-APR-2000; 2000DE-1019173.
XX PA (EPIG-) EPIGENOMICS AG.
XX PI Olek A, Piepenbrock C, Berlin K;
XX DR WPI; 2001-657177/75.
XX PT Set of oligonucleotides, useful for diagnosis and cell typing, is
XX PT designed to detect single nucleotide polymorphisms and cytosine
XX PT methylation status -
XX PS Claim 1; SEQ ID 26866; 29pp + Sequence Listing; German.
XX CC This invention describes novel oligonucleotide primers or peptide nucleic
XX CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX CC and cytosine methylation status in chemically pretreated genomic DNA. The
XX CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX CC range of diseases including immune system, gastrointestinal, respiratory,
XX CC central nervous system, cardiovascular and metabolic disorders. The
XX CC oligomers are also used for detecting cell type differentiation.
XX CC ABC00010-ABC99989, ABR00010-ABR99989, ABH00010-ABH99989 and
XX CC ABI00010-ABI82073 represent the oligomers described in the invention.
XX CC NOTE: The sequence data for this patent did not form part of the printed
XX CC specification, but was obtained in electronic format from WIPO at
XX CC ftp.wipo.int/pub/published_pct_sequences.
XX SQ Sequence 13 BP; 4 A; 0 C; 8 G; 1 T; 0 other;
Query Match 8.2%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 2.1e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1744 TCCTCCCTATCCT 1756
Db 13 TCCCTCCCTATCCT 1

RESULT 200
ABC38205
ID ABC38205 standard; DNA; 13 BP.
XX AC ABC38205;
XX DT 20-FEB-2002 (first entry)
XX DE Oligonucleotide SEQ ID NO 38222 for detecting SNP TSC0011836.
XX KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX OS Homo sapiens.
XX PN WO200177384-A2.
XX PD 18-OCT-2001.
XX PF 06-APR-2001; 2001WO-IB00713.
XX PR 07-APR-2000; 2000DE-1019173.
XX PA (EPIG-) EPIGENOMICS AG.
XX PI Olek A, Piepenbrock C, Berlin K;
XX DR WPI; 2001-657177/75.
XX PT Set of oligonucleotides, useful for diagnosis and cell typing, is
XX PT designed to detect single nucleotide polymorphisms and cytosine
XX PT methylation status -
XX PS Claim 1; SEQ ID 38221; 29pp + Sequence Listing; German.
XX CC This invention describes novel oligonucleotide primers or peptide nucleic
XX CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX CC and cytosine methylation status in chemically pretreated genomic DNA. The
XX CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX CC range of diseases including immune system, gastrointestinal, respiratory,
XX CC central nervous system, cardiovascular and metabolic disorders. The
XX CC oligomers are also used for detecting cell type differentiation.
XX CC ABC00010-ABC99989, ABR00010-ABR99989, ABH00010-ABH99989 and
XX CC ABI00010-ABI82073 represent the oligomers described in the invention.
XX CC NOTE: The sequence data for this patent did not form part of the printed
XX CC specification, but was obtained in electronic format from WIPO at
XX CC ftp.wipo.int/pub/published_pct_sequences.
XX SQ Sequence 13 BP; 4 A; 0 C; 8 G; 1 T; 0 other;
Query Match 8.2%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 2.1e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1739 CCAACTCTCTCCCT 1751
Db 1 CCATCTCTCTCCCT 13

RESULT 199
```

PR 07-APR-2000; 2000DE-1019173.
XX (EPIG-) EPIGENOMICS AG.
PA Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
DR
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX
XX Claim 1; SEQ ID 25875; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABH00010-ABH99989 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 13 BP; 3 A; 0 C; 7 G; 3 T; 0 other;
SQ
Query Match 8.2%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 2.1e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1745 CCTCCCTATCCTA 1757
Db 13 CCTCCCTAACCTA 1
RESULT 196
ABC25859
ID ABC25859 standard; DNA; 13 BP.
XX AC ABC25859;
XX
XX 20-FEB-2002 (first entry)
XX
XX Oligonucleotide SEQ ID NO 25876 for detecting SNP TSC0006598.
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
XX (EPIG-) EPIGENOMICS AG.
XX Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX
XX Claim 1; SEQ ID 25876; 29pp + Sequence Listing; German.
PS

XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABH00010-ABH99989 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 13 BP; 3 A; 7 C; 0 G; 3 T; 0 other;
SQ
Query Match 8.2%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 2.1e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1745 CCTCCCTATCCTA 1757
Db 1 CCTCCCTAACCTA 13
RESULT 197
ABC26848/C
ID ABC26848 standard; DNA; 13 BP.
XX AC ABC26848;
XX
XX 20-FEB-2002 (first entry)
XX
XX Oligonucleotide SEQ ID NO 26865 for detecting SNP TSC0007227.
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
XX (EPIG-) EPIGENOMICS AG.
XX Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX
XX Claim 1; SEQ ID 26865; 29pp + Sequence Listing; German.
PS
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABH00010-ABH99989 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX

PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX
PS Claim 1; SEQ ID 16700; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABI00010-ABI82073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 13 BP; 4 A; 6 C; 1 G; 2 T; 0 other;
Query Match 8.2%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 2.1e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1709 GGTAGGAGTACG 1721
Db 13 GGTAGGAGTTCG 1
|||||
RESULT 191
ABC23224
ID ABC23224 standard; DNA; 13 BP.
XX
AC ABC23224;
XX
DT 20-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 23241 for detecting SNP TSC0004727.
XX
KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB00713.
XX
PR 07-APR-2000; 2000DE-1019173.
XX
PA (EPIG-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
DR WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX
PS Claim 1; SEQ ID 23241; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX
PS Claim 1; SEQ ID 23241; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.

CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABI00010-ABI82073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 13 BP; 4 A; 0 C; 5 G; 4 T; 0 other;
Query Match 8.2%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 2.1e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1701 GGAAGTTGGTTA 1713
Db 1 GGAAGTTGGATTA 13
|||||
RESULT 192
ABC23225/C
ID ABC23225 standard; DNA; 13 BP.
XX
AC ABC23225;
XX
DT 20-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 23242 for detecting SNP TSC0004727.
XX
KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB00713.
XX
PR 07-APR-2000; 2000DE-1019173.
XX
PA (EPIG-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
DR WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX
PS Claim 1; SEQ ID 23242; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX
PS Claim 1; SEQ ID 23242; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.

CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABI00010-ABI82073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 13 BP; 4 A; 5 C; 0 G; 4 T; 0 other;
Query Match 8.2%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 2.1e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1701 GGAAGTTGGTTA 1713

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AC ABC08447;
XX
XX DT 20-FEB-2002 (first entry)
XX
XX DE Oligonucleotide SEQ ID NO 8438 for detecting SNP TSC0002329.
XX
XX KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX OS Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX PF 06-APR-2001; 2001WO-IB00713.
XX
XX PR 07-APR-2000; 2000DE-1019173.
XX
XX PA (EPIG-) EPIGENOMICS AG.
XX
XX PI Olek A, Piepenbrock C, Berlin K;
XX
XX WIPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status -
XX
XX Claim 1; SEQ ID 8438; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX ABI00010-ABI82073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 13 BP; 5 A; 4 C; 0 G; 4 T; 0 other;
XX
XX Query Match 8.2%; Score 11.4; DB 1; Length 13;
XX Best Local Similarity 92.3%; Pred. No. 2.1e+02;
XX Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
XX QY 1747 TCCTATCCTCTAAA 1759
XX
XX Db 1 TCCTATCCTCTAAA 13
XX
XX RESULT 189
XX ABC16692
XX ID ABC16692 standard; DNA; 13 BP.
XX
XX AC ABC16692;
XX
XX DT 20-FEB-2002 (first entry)
XX
XX DE Oligonucleotide SEQ ID NO 16699 for detecting SNP TSC0003627.
XX
XX KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX OS Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX PF 06-APR-2001; 2001WO-IB00713.
XX
XX PR 07-APR-2000; 2000DE-1019173.
XX
XX PA (EPIG-) EPIGENOMICS AG.
XX
XX PI Olek A, Piepenbrock C, Berlin K;
XX
XX WIPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status -
XX
XX Claim 1; SEQ ID 8438; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX ABI00010-ABI82073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 13 BP; 5 A; 4 C; 0 G; 4 T; 0 other;
XX
XX Query Match 8.2%; Score 11.4; DB 1; Length 13;
XX Best Local Similarity 92.3%; Pred. No. 2.1e+02;
XX Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
XX QY 1747 TCCTATCCTCTAAA 1759
XX
XX Db 1 TCCTATCCTCTAAA 13
XX
XX RESULT 189
XX ABC16692
XX ID ABC16692 standard; DNA; 13 BP.
XX
XX AC ABC16692;
XX
XX DT 20-FEB-2002 (first entry)
XX
XX DE Oligonucleotide SEQ ID NO 16699 for detecting SNP TSC0003627.
XX
XX KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX OS Homo sapiens.
XX
XX WO200177384-A2.
XX
XX PN
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XX 18-OCT-2001.
XX
XX PF 06-APR-2001; 2001WO-IB00713.
XX
XX PR 07-APR-2000; 2000DE-1019173.
XX
XX PA (EPIG-) EPIGENOMICS AG.
XX
XX PI Olek A, Piepenbrock C, Berlin K;
XX
XX WIPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status -
XX
XX Claim 1; SEQ ID 16699; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX ABI00010-ABI82073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 13 BP; 2 A; 1 C; 6 G; 4 T; 0 other;
XX
XX Query Match 8.2%; Score 11.4; DB 1; Length 13;
XX Best Local Similarity 92.3%; Pred. No. 2.1e+02;
XX Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
XX QY 1709 GGTAGGAGTACG 1721
XX
XX Db 1 GGTAGGAGTTCG 13
XX
XX RESULT 190
XX ABC16693/C
XX ID ABC16693 standard; DNA; 13 BP.
XX
XX AC ABC16693;
XX
XX DT 20-FEB-2002 (first entry)
XX
XX DE Oligonucleotide SEQ ID NO 16700 for detecting SNP TSC0003627.
XX
XX KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX OS Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX PF 06-APR-2001; 2001WO-IB00713.
XX
XX PR 07-APR-2000; 2000DE-1019173.
XX
XX PA (EPIG-) EPIGENOMICS AG.
XX
XX PI Olek A, Piepenbrock C, Berlin K;
XX
XX WIPI; 2001-657177/75.
XX
XX DR
```


Best Local Similarity 91.7%; Pred. No. 2.4e+02; Mismatches 1; Indels 0; Gaps 0;
Matches 11; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1731 ATTGGCTCCAA 1742
|||||:||||
Db 1 ATTGGCTCCAA 12

RESULT 186
AA06017/c
ID AAA06017 standard; DNA; 13 BP.
XX AC AAA06017;
XX DT 14-JUN-2000 (first entry)
XX DE CFTR gene analysis oligonucleotide probe SEQ ID NO:27.
XX KW CFTR; cystic fibrosis transmembrane conductance regulator; detection;
XX KW mutation; probe; human; hybridisation; ss.
XX OS Homo sapiens.
XX PN US6027880-A.
XX PD 22-FEB-2000.
XX PF 10-OCT-1995; 95US-0544381.
XX PR 26-OCT-1993; 93US-0143312.
XX PR 02-AUG-1994; 94US-0284084.
XX PR 26-OCT-1994; 94WO-US12305.
XX PR 02-AUG-1995; 95US-0510521.
XX PA (AFFY-) AFFYMETRIX INC.
XX PI Huang XC, Chee M, Lobban PE, Hubbell EA, Sheldon EL, Miyada CG;
XX PI Cronin MT, Lipshutz RU, Morris MS, Fodor SPA;
XX WPI; 2000-194825/17.
XX PT An array of nucleic acid probes immobilized on a solid support, useful
XX PT for identifying mutations in the cystic fibrosis transmembrane
XX PT conductance regulator -
XX PS Disclosure; Column 75; 114pp; English.
XX CC The present invention describes an array of nucleic acid probes
XX CC immobilised on a solid support, which comprises: (1) a first probe set,
XX CC comprising probes with a segment of at least 6 nucleotides complementary
XX CC to the CFTR (cystic fibrosis transmembrane conductance regulator) gene,
XX CC where the segment includes at least 1 interrogation position
XX CC complementary to a nucleotide in the CFTR gene sequence; and (2) second,
XX CC third and fourth probe sets, each comprising probes identical to those
XX CC in (1) except that the interrogation position is occupied by a different
XX CC nucleotide. AA05991 to AA06240 represent CFTR gene analysis
XX CC oligonucleotide probes for use in the exemplification of the present
XX CC invention. The present invention also describes a method of comparing a
XX CC target nucleic acid with a reference sequence consisting of a
XX CC predetermined sequence of nucleotides, comprising: (a) hybridising a
XX CC sample comprising the target nucleic acid to an array of nucleic acid
XX CC probes immobilised on a solid support; (b) comparing the relative
XX CC specific binding of two corresponding probes from the first and second
XX CC probe sets; (c) assigning a nucleotide in the target sequence as the
XX CC complement of the interrogation position of the probe having the greater
XX CC specific binding; and (d) repeating (b) and (c) by comparing the relative
XX CC specific binding of a further two corresponding probes from the first and
XX CC second probe sets until each nucleotide of interest in the target
XX CC sequence has been assigned. The array is useful for analysis of the CFTR
XX CC gene, e.g. detection of mutations.
XX SQ Sequence 13 BP; 0 A; 4 C; 4 G; 5 T; 0 other;

Query Match 8.2%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 2.1e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1649 AAGGCAAGCACCA 1661
|||||:|||||
Db 13 AGGCAAGCACCA 1

RESULT 187
ABC08446/c
ID ABC08446 standard; DNA; 13 BP.
XX AC ABC08446;
XX DT 20-FEB-2002 (first entry)
XX DE Oligonucleotide SEQ ID NO 8437 for detecting SNP TSC0002329.
XX KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX OS Homo sapiens.
XX PN WC200177384-A2.
XX PD 18-OCT-2001.
XX PF 06-APR-2001; 2001WO-1500713.
XX PR 07-APR-2000; 2000DE-1019173.
XX PA (EPIC-) EPIGENOMICS AG.
XX PI Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX PT Set of oligonucleotides, useful for diagnosis and cell typing, is
XX PT designed to detect single nucleotide polymorphisms and cytosine
XX PT methylation status -
XX PS Claim 1; SEQ ID 8437; 29pp + Sequence Listing; German.
XX CC This invention describes novel oligonucleotide primers or peptide nucleic
XX CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX CC and cytosine methylation status in chemically pretreated genomic DNA. The
XX CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX CC range of diseases including immune system, gastrointestinal, respiratory,
XX CC central nervous system, cardiovascular and metabolic disorders. The
XX CC oligomers are also used for detecting cell type differentiation.
XX CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX CC ABT00010-ABT82073 represent the oligomers described in the invention.
XX CC NOTE: The sequence data for this patent did not form part of the printed
XX CC ftp.wipo.int/pub/published_pct_sequences.
XX SQ Sequence 13 BP; 4 A; 0 C; 4 G; 5 T; 0 other;

Query Match 8.2%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 2.1e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1747 TCCCTATCCTAAA 1759
|||||:|||||
Db 13 TCCATACTCTAAA 1

RESULT 188
ABC08447
ID ABC08447 standard; DNA; 13 BP.
XX

CC materials. This sequence represents a primer used in the isolation of a
 CC sphingolipid desaturase protein sld1 homologue fragment isolated from
 CC *Helianthus annuus* which is used in the method of the invention.

XX
 SQ Sequence 15 BP; 2 A; 0 C; 7 G; 3 T; 3 other;

Query Match 8.3%; Score 11.6; DB 1; Length 15;
 Best Local Similarity 73.3%; Pred. No. 2.4e+02;
 Matches 11; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1694 GCCTGTGGAGTGG 1708

DB 1 GSNTGGTGGAAATGG 15

RESULT 184

ID ABN81456/c
 ID ABN81456 standard; DNA; 15 BP.

XX AC ABN81456;

XX DT 16-AUG-2002 (first entry)

XX DE Human HTATIP allele specific PCR primer SEQ ID NO 57.
 XX KW Human; HIV-1 Tat interactive protein; HTATIP; haplotyping;
 KW genotyping; transgenic; PCR; primer; ss.
 XX OS Homo sapiens.
 XX PN WO200229089-A2.
 XX PD 11-APR-2002.

XX PF 05-OCT-2001; 2001WO-US31593.

XX PR 06-OCT-2000; 2000US-238655P.

XX PA (GENA-) GENAISSANCE PHARM INC.

XX PI Armstrong B, Bentivegna SC, Choi JY, Gilson CR, Parks KE;
 PI Sausker EA;

XX DR WPI; 2002-330173/36.

XX PT New HIV-1 tat interactive protein, 60 kDa (HTATIP) gene polymorphic
 PT variants, for studying the expression and function of HTATIP and
 PT screening candidate drugs for treating familial glucocorticoid
 PT deficiency and cancer -
 XX PS Claim 14; Page 14; 89pp; English.

XX CC The invention relates to novel genetic variants of the HIV-1 Tat
 CC interactive protein, 60 kDa (HTATIP) gene. The polymorphic variants are
 CC useful in studying the expression and function of HTATIP, in expressing
 CC HTATIP protein for use in screening for candidate drugs to treat diseases
 CC related to HTATIP activity, in studying the effect of the variation on
 CC the biological activity of HTATIP and the binding affinity of candidate
 CC drugs targeting HTATIP for the treatment of disorders. Haplotyping
 CC methods are useful in validating HTATIP as a candidate target for
 CC treating a specific condition or disease predicted to be associated with
 CC HTATIP activity or in the design of clinical trials of candidate drugs
 CC for treating a specific condition or disease associated with HTATIP
 CC activity. Transgenic animals are useful for studying expression of the
 CC HTATIP isogenes in vivo, for in vivo screening and testing of drugs
 CC targeted against HTATIP protein and for testing the efficacy of
 CC therapeutic agents and compounds for disorders. The present sequence is
 CC that of a HTATIP allele specific PCR primer of the invention.

XX SQ Sequence 15 BP; 3 A; 3 C; 6 G; 2 T; 1 other;

Query Match 8.3%; Score 11.6; DB 1; Length 15;
 Best Local Similarity 91.7%; Pred. No. 2.4e+02;

Matches 11; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1657 CACCAGGCTCAC 1668

DB 15 CRCCAGGCTCAC 4

RESULT 185

ABL36320
 ID ABL36320 standard; DNA; 15 BP.

XX AC ABL36320;

XX DT 22-APR-2002 (first entry)

XX DE Human lysosomal acid phosphatase 2 (ACP2) allele-specific probe 21.
 XX KW Human; ss; lysosomal acid phosphatase 2; ACP2; gene; chromosome 11;
 KW lysosome-specific enzyme; orthophosphoric monoester hydrolysis;
 KW Hodgkin's disease; HD; acid phosphatase deficiency;
 KW novel polymorphic site; ACP2 haplotype; ACP2 genotype; polymorphism;
 KW transgenic animal; primer; probe; primer-extension oligonucleotide;
 KW SNP; single nucleotide polymorphism.

XX OS Homo sapiens.

XX PN WO200194362-A2.

XX PD 13-DEC-2001.

XX PF 07-JUN-2001; 2001WO-US18457.

XX PR 07-JUN-2000; 2000US-210047P.

XX PA (GENA-) GENAISSANCE PHARM INC.

XX PI Kliem SE, Messer C, Tanguay DA;

XX DR WPI; 2002-154563/20.

XX PT Novel genetic variants of acid phosphatase 2, lysosomal polypeptide
 PT gene useful in studying expression and function of the protein, and for
 PT screening drugs to treat diseases e.g. Hodgkin's disease -
 XX PS Claim 17; Page 14; 109pp; English.

XX CC The invention comprises the human lysosomal acid phosphatase 2 (ACP2)
 CC nucleic acid and protein sequences. Specifically, the invention relates
 CC to the discovery of 22 novel polymorphic sites within the ACP2 gene. The
 CC invention also comprises methods for haplotyping and genotyping the ACP2
 CC gene in an individual. The ACP2 gene (located on chromosome 11) encodes a
 CC lysosomal-specific enzyme that catalyses the hydrolysis of
 CC orthophosphoric monoesters to alcohol and phosphate. The ACP2 gene and
 CC protein are pharmacologically important in the treatment of Hodgkin's
 CC disease (HD) and acid phosphatase deficiency. The novel ACP2 gene
 CC polymorphisms of the invention are useful in haplotyping the ACP2 gene.
 CC ACP2 haplotyping is useful in validating ACP2 as a target (and designing
 CC drugs) for treating an ACP2-related disease or condition (e.g. Hodgkin's
 CC disease and acid phosphatase deficiency). The ACP2 gene polymorphisms are
 CC useful for ACP2 genotyping, which can also be used to develop diagnostic
 CC tests and therapeutic treatments. The ACP2 protein and nucleic acids of
 CC the invention are useful in the production of a transgenic animal which
 CC expresses ACP2 protein. The ACP2 nucleic acids of the invention are
 CC useful in the production of allele-specific oligonucleotides designed to
 CC genotype each of the ACP2 polymorphisms. Nucleic acids ABL36299-ABL36320
 CC represent claimed ACP2 allele-specific probes. Nucleic acids ABL36321-
 CC ABL36364 represent claimed ACP2 allele-specific PCR primers. Nucleic
 CC acids ABL36365-ABL36408 represent claimed ACP2 primer-extension
 CC oligonucleotides.

XX SQ Sequence 15 BP; 4 A; 3 C; 4 G; 3 T; 1 other;

Query Match 8.3%; Score 11.6; DB 1; Length 15;

PI Olek A, Piepenbrock C, Berlin K;

XX WPI; 2001-657177/75.

DR Set of oligonucleotides, useful for diagnosis and cell typing, is

PT designed to detect single nucleotide polymorphisms and cytosine

PT methylation status -

XX Claim 1; SEQ ID 266129; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation.

CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and

CC ABI00010-ABI82073 represent the oligomers described in the invention.

CC NOTE: The sequence data for this patent did not form part of the printed

CC specification, but was obtained in electronic format from WIPO at

CC ftp.wipo.int/pub/published_pct_sequences.

XX Sequence 13 BP; 4 A; 0 C; 5 G; 3 T; 1 other;

Query Match 8.3%; Score 11.6; DB 1; Length 13;

Best Local Similarity 91.7%; Pred. No. 1.9e+02;

Matches 11; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 1722 GAGATGGAGATT 1733

Db 2 GAGATGGAGATT 13

RESULT 182

ID ABH66153/c

XX ABH66153 standard; DNA; 13 BP.

XX ABH66153;

XX 22-FEB-2002 (first entry)

DE Oligonucleotide SEQ ID NO 266130 for detecting SNP TSC0064482.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;

XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

XX central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX Homo sapiens.

OS WO200177384-A2.

EN 18-OCT-2001.

XX 06-APR-2001; 2001WO-IB00713.

PF 07-APR-2000; 2000DE-1019173.

PR (EPIG-) EPIGENOMICS AG.

XX Olek A, Piepenbrock C, Berlin K;

XX WPI; 2001-657177/75.

XX Set of oligonucleotides, useful for diagnosis and cell typing, is

PT designed to detect single nucleotide polymorphisms and cytosine

PT methylation status -

XX Claim 1; SEQ ID 266130; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The

CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation.

CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and

CC ABI00010-ABI82073 represent the oligomers described in the invention.

CC NOTE: The sequence data for this patent did not form part of the printed

CC specification, but was obtained in electronic format from WIPO at

CC ftp.wipo.int/pub/published_pct_sequences.

XX Sequence 13 BP; 3 A; 5 C; 0 G; 4 T; 1 other;

Query Match 8.3%; Score 11.6; DB 1; Length 13;

Best Local Similarity 91.7%; Pred. No. 1.9e+02;

Matches 11; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 1722 GAGATGGAGATT 1733

Db 12 GAGATGGAGATT 1

RESULT 183

AAZ44834

ID AAZ44834 standard; DNA; 15 BP.

XX AAZ44834;

XX 27-APR-2000 (first entry)

DE H. annuus sld1 homologue primer EN1.

XX Shingolipid desaturase; sld1; sphingobase; ceramide; capnoid;
 KW transgenic plant; crop plant; delta-8-unsaturated long-chain base;
 KW tolerance; resistance; soil salinity; ion stress; toxicity; drought;
 KW cold; frost; phytopathogenic microorganism; flowering time; cosmetic;
 KW pharmaceutical; food; chemical raw material; primer; ss.

XX Helianthus annuus.

OS DE19828850-A1.

XX 30-DEC-1999.

XX 27-JUN-1998; 98DE-1028850.

XX 27-JUN-1998; 98DE-1028850.

XX (GVSE-) GVS GES ERWERB & VERW LANDWIRTSCHAFTLICH.

XX Heinz E, Zaehrer U, Schmidt H, Sperling P;

XX WPI; 2000-127549/12.

XX New sphingolipid desaturase that selectively introduces double bond

XX into sphingolipids and capnoids -

XX Example 1; Page 24; 62pp; German.

XX This invention describes a novel sphingolipid desaturase that selectively
 CC introduces a double bond into the sphingobase of the ceramide residue of
 CC sphingolipids and capnoids. A DNA sequence encoding the sphingolipid
 CC desaturase, or a vector containing the DNA sequence, can be used to
 CC produce transgenic plants, especially crop plants, with an increased or
 CC decreased delta-8-unsaturated long-chain base content or an altered
 CC delta-8-unsaturated long-chain base cis/trans ratio, especially to
 CC compensate for a delta-8-unsaturated long-chain base deficiency, to
 CC exclude production of delta-8-unsaturated bases, to increase tolerance
 CC or resistance to soil salinity, ion stress or toxicity, drought, wet
 CC conditions, cold or frost and/or phytopathogenic microorganisms, or to
 CC alter size growth and flowering time. Cells, transgenic organisms or
 CC plants containing the DNA sequence can be used to produce sphingolipids
 CC and capnoids with unsaturated sphingobases. The sphingolipids or capnoids
 CC can be used in cosmetics, pharmaceuticals and foods and as chemical raw

```
OS Unidentified.
XX
XX WO2003012143-A1.
XX
XX 13-FEB-2003.
XX
XX 16-JUL-2002; 2002WO-US22555.
XX
XX 16-JUL-2001; 2001US-305153P.
XX
XX 20-JUL-2001; 2001US-306440P.
XX
XX 13-NOV-2001; 2001US-331285P.
XX
XX 19-DEC-2001; 2001US-340843P.
XX
XX 19-DEC-2001; 2001US-340844P.
XX
XX (PRIC-) PRICE FOUND LTD.
XX
XX Bergen AW, Yeager M;
XX
XX WPI; 2003-268122/26.
XX
XX New nucleic acid molecule having polymorphisms in the serotonin
XX receptor 1D, delta-opioid receptor, or dopamine receptor D2, useful in
XX diagnostic and prognostic assays for eating disorders, such as anorexia
XX and bulimia nervosa
XX
XX Example 3; Page 60; 149pp; English.
XX
XX The invention relates to a novel isolated nucleic acid molecule
XX comprising a variant gene associated with an eating disorder and selected
XX from any of 119 polymorphisms with their corresponding genotyping in
XX dataset, alleles and HGBASE identification, given in the specification.
XX The novel nucleic acid molecule has polymorphisms in the serotonin
XX receptor 1D, delta-opioid receptor, or dopamine receptor D2, which is
XX useful in diagnostic and prognostic assays for eating disorders, in
XX particular anorexia nervosa and bulimia nervosa. This polynucleotide
XX sequence represents a opioid receptor 1D PCR primer of the invention.
XX
XX Sequence 16 BP; 4 A; 5 C; 3 G; 4 T; 0 other;
XX
XX Query Match 8.5%; Score 11.8; DB 1; Length 16;
XX Best Local Similarity 86.7%; Pred. NO. 2.5e+02;
XX Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
XX QY 1662 GGCTCACACCTGTAA 1676
XX ||||| ||||| |||||
XX 2 GGCTCACACCTGTAA 16
XX
XX RESULT 180
XX ABX14989
XX ID ABX14989 standard; DNA; 16 BP.
XX
XX AC ABX14989;
XX
XX DT 14-MAR-2003 (first entry)
XX
XX DE Human delta opioid receptor OPRD1-1 SNP genotyping PCR primer #1.
XX
XX KW Human; delta opioid receptor; OPRD1-1; ss; PCR; primer; SNP;
XX single nucleotide polymorphism; eating disorder; anorexia nervosa;
XX energy homeostasis disorder; chromosome 1.
XX
XX OS Homo sapiens.
XX
XX PN WO200292838-A2.
XX
XX PD 21-NOV-2002.
XX
XX PF 13-MAY-2002; 2002WO-US14940.
XX
XX PR 11-MAY-2001; 2001US-290016P.
XX
XX PA (BIOI-) BIOINVEST LTD.
XX

XX Bergen AW;
XX
XX WPI; 2003-129306/12.
XX
XX New isolated nucleic acid molecule encoding a delta opioid receptor
XX variant associated with an eating or energy homeostasis disorder,
XX useful for diagnosing a genetic predisposition to such disorder, e.g.
XX anorexia nervosa
XX
XX Example; Page 19; 39pp; English.
XX
XX The invention relates to an isolated nucleic acid molecule encoding a
XX delta opioid receptor variant associated with an eating or energy
XX homeostasis disorder. Also included are a delta opioid receptor variant
XX encoded by the nucleic acid, an isolated antibody that specifically
XX recognises the delta opioid receptor variant, a vector comprising the
XX nucleic acid, a host cell transformed to contain the vector, producing
XX the polypeptide by culturing the host cell, identifying an agent which
XX modulates the expression of the nucleic acid, diagnosing a genetic
XX predisposition to an eating or energy homeostasis disorder by detecting
XX the presence or absence of the variant nucleic acid in a patient sample,
XX an allele specific primer that detects a polymorphism in the gene
XX encoding a delta opioid receptor associated with an eating or energy
XX homeostasis disorder and a non-human transgenic animal modified to
XX contain the variant nucleic acids. The variants are named OPRD1-1
XX to OPRD1-8. The human opioid receptor gene is located on chromosome 1.
XX The nucleic acid molecules and delta opioid receptor variant are
XX useful for diagnosing a genetic predisposition to an eating or energy
XX homeostasis disorder, such as anorexia nervosa. The allele specific
XX primer is useful for detecting polymorphism in the gene encoding a
XX delta opioid receptor associated with the disorder cited.
XX The present sequence is a genotyping PCR primer for detecting the
XX presence of a particular SNP (single nucleotide polymorphism) in a
XX sample.
XX
XX Sequence 16 BP; 4 A; 5 C; 3 G; 4 T; 0 other;
XX
XX Query Match 8.5%; Score 11.8; DB 1; Length 16;
XX Best Local Similarity 86.7%; Pred. NO. 2.5e+02;
XX Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
XX QY 1662 GGCTCACACCTGTAA 1676
XX ||||| ||||| |||||
XX 2 GGCTCACACCTGTAA 16
XX
XX RESULT 181
XX ABH66152
XX ID ABH66152 standard; DNA; 13 BP.
XX
XX AC ABH66152;
XX
XX DT 22-FEB-2002 (first entry)
XX
XX DE Oligonucleotide SEQ ID NO 266129 for detecting SNP TSC0064482.
XX
XX KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX OS Homo sapiens.
XX
XX PN WO200177384-A2.
XX
XX PD 18-OCT-2001.
XX
XX PF 06-APR-2001; 2001WO-IB00713.
XX
XX PR 07-APR-2000; 2000DE-1019173.
XX
XX PA (EPIC-) EPIGENOMICS AG.
XX
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Best Local Similarity 86.7%; Pred. No. 2.5e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1655 AGCACCAGGCTCAC 1669
Db 15 AACACCGGCTCAC 1

RESULT 177
AAZ88440/C
ID AAZ88440 standard; DNA; 16 BP.
XX AAZ88440;
AC AAZ88440;
XX 08-MAY-2000 (first entry)
DT 08-MAY-2000 (first entry)
DE Exemplary texaphyrin oligonucleotide conjugate SEQ ID NO:6.
XX Texaphyrin; metal complex; catalytic; RNA hydrolysis; virucide;
KW antibacterial; cytostatic; antiinflammatory; antitumour;
KW antiviral; ss.
XX Synthetic.
OS US6022959-A.
XX 08-FEB-2000.
PD 08-FEB-2000.
XX 20-NOV-1997; 97US-0975522.
PF 20-AUG-1996; 96US-0077185.
XX 20-AUG-1997; 97WO-US14682.
PR (PHAR-) PHARMACYCLICS INC.
XX Wright M, Crofts SP, Magda D;
PI WPI; 2000-160391/14.
XX Texaphyrin metal complex derivatized ribonucleic acids possessing
PT hydrolytic cleavage activity against RNA are useful as e.g. antiviral,
PT antibacterial, antitumor and antiinflammatory agents -
XX Example 4; Column 33; 30pp; English.
PS The present invention describes a conjugate with hydrolytic cleavage
CC activity for ribonucleic acid (RNA), which comprises a texaphyrin metal
CC complex bound to an internal linkage of an oligonucleotide or
CC oligonucleotide analogue. AAZ88435 to AAZ88440 represent exemplary
CC texaphyrin oligonucleotide conjugates used in the exemplification of the
CC present invention. The novel conjugates have virucide, antibacterial,
CC cytostatic and antiinflammatory properties, and are involved in RNA
CC hydrolysis. The conjugates are useful for inhibiting the expression of
CC a gene by targeted intracellular mRNA (messenger ribonucleic acid)
CC hydrolysis. The conjugates have applications for anti-viral and
CC anti-bacterial therapy as well as cancers and inflammatory responses
CC caused by overexpression of certain proteins.
XX Sequence 16 BP; 1 A; 2 C; 8 G; 5 T; 0 other;
SQ Query Match 8.5%; Score 11.8; DB 1; Length 16;
Best Local Similarity 86.7%; Pred. No. 2.5e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1655 AGCACCAGGCTCAC 1669
Db 15 AACACCGGCTCAC 1

RESULT 178
AAZ97664
ID AAZ97664 standard; DNA; 16 BP.
XX

AAZ97664;
XX 26-APR-2000 (first entry)
DT HIV-1 protease gene probe SEQ ID NO:154.
XX Human immunodeficiency virus type 1.
XX Human immunodeficiency virus; HIV; protease; probe; detection;
KW drug selected mutation; hybridisation; genotyping; infection;
KW drug resistance; ss.
XX Human immunodeficiency virus type 1.
OS WO9967428-A2.
XX 29-DEC-1999.
PD 22-JUN-1999; 99WO-EP04317.
XX 24-JUN-1998; 98EP-0870143.
XX (INNO-) INNOGENETICS NV.
XX Stuyver L;
PI WPI; 2000-147219/13.
XX Detection of drug-selected mutations in the HIV protease gene used to
PT treat HIV infections -
PT Claim 3; Page 35; 76pp; English.
PS The present invention describes the detection of drug-selected mutations
CC in the HIV protease gene. The method of detection allows the
CC simultaneous characterisation of a range of codons involved in drug
CC resistance using sets of probes optimised to function together in a
CC reverse-hybridisation assay. AAZ97517 to AAZ97997 represent specifically
CC claimed probes for use in the assay, and AAZ97479 to AAZ97501 represent
CC specifically claimed HIV protease gene polymorphic nucleotide sequences.
CC AAZ97502 to AAZ97515, and AAZ98004 to AAZ98007, represent PCR primers for
CC the HIV protease gene, and AAZ97516 represents an HIV protease probe used
CC in an example from the present invention. The method, probes and primers
CC can be used for the detection of drug-selected mutations in the HIV
CC protease gene. The method allows the simultaneous characterisation of a
CC range of codons involved in drug resistance. The method may also be used
CC for HIV protease genotyping assays. The probes are able to discriminate
CC between wild type and mutated protease sequences. The method allows rapid
CC and reliable detection of drug-selected mutation in HIV.
XX Sequence 16 BP; 2 A; 0 C; 10 G; 4 T; 0 other;
SQ Query Match 8.5%; Score 11.8; DB 1; Length 16;
Best Local Similarity 86.7%; Pred. No. 2.5e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1721 GGAGATGGAGATTGG 1735
Db 2 GGAGTTGGAGTTGG 16

RESULT 179
ABT34281
ID ABT34281 standard; DNA; 16 BP.
XX ABT34281;
AC ABT34281;
XX 12-JUN-2003 (first entry)
DT Opioid receptor D1 PCR primer SEQ ID NO 67.
XX Eating disorder; polymorphism; dataset; allele; HGBASE identification;
KW serotonin receptor 1D; delta-opioid receptor; dopamine receptor D2;
KW anorexia nervosa; bulimia nervosa; PCR; primer; ss.
XX

```

Db      | ||||| ||||| |||||
        15 AACACCGGCTCACA 1

RESULT 175
AAV07300/c
ID AAV07300 standard; DNA; 16 BP.
XX
XX
XX AAV07300;
XX
XX 14-AUG-1998 (first entry)
XX
XX Metallotexaphyrin-oligonucleotide conjugate #14.
XX
XX Metallotexaphyrin; dysprosium; europium; conjugate; RNase H;
XX antisense therapy; ss.
XX
XX Synthetic.
XX
XX Key Location/Qualifiers
XX modified_base 1 /*tag= a
XX /*mod_base=
XX /*note= "DyTxNH-(CH2)6-PO4-thymine, where DyTx is
XX dysprosium (III) texaphyrin"
XX
XX US763172-A.
XX
XX 09-JUN-1998.
XX
XX 07-JUN-1995; 95US-0486962.
XX
XX 07-JUN-1995; 95US-0485581.
XX 21-JAN-1992; 92US-0822964.
XX 09-JUN-1993; 93US-0075123.
XX 14-APR-1994; 94US-0227370.
XX 09-JUN-1994; 94WO-US06284.
XX 26-MAY-1995; 95US-0452261.
XX 07-JUN-1995; 95US-0486962.
XX
XX (PHAR-) PHARMACYCLICS INC.
XX (TEXA) UNIV TEXAS SYSTEM.
XX
XX Dow WC, Magda D, Miller RA, Sessler JL, Wright M;
XX
XX WPI; 1998-347306/30.
XX
XX Enhancing therapeutic activity of oligonucleotides in cells - using
XX conjugate comprising metallotexaphyrin, which hydrolyses phosphate
XX ester bonds of RNA, and oligo-nucleotide, which binds to targeted
XX RNA
XX
XX Example 6; Figure 5; 34pp; English.
XX
XX The invention relates to a method of enhancing the therapeutic activity
XX of oligonucleotides in cells. It comprises contacting a targeted
XX intracellular RNA in a cell with a metallotexaphyrin-oligonucleotide
XX conjugate. The contact is carried out under physiological conditions for
XX a time sufficient to hydrolyse the phosphate ester bond of the targeted
XX RNA. The metallotexaphyrin of the conjugate has catalytic activity for
XX phosphate ester bond hydrolysis. The oligonucleotide of the conjugate
XX has complementary binding affinity to the targeted RNA. The conjugate
XX may be used in antisense therapies for treating, e.g. cancer, viral
XX infections, autoimmune diseases and restenosis. The conjugate may also
XX be used as hydrolysis reagents for the detoxification of di- and
XX trialkyl phosphate esters, which are used in solvents, insecticides and
XX chemical nerve gases. The metallotexaphyrin complex enhances the
XX therapeutic activity of the oligonucleotide, not only by facilitating
XX cellular uptake of the oligonucleotide but also by hydrolysing target
XX RNA within the cell, independent of RNase H. Attachment to the complex
XX may also cause the oligonucleotide to take on some of the pharmacodynamic
XX an biodistribution properties of the texaphyrin, such as selective
XX localisation in tumours. The present sequence represents a metallo-

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CC texaphyrin-oligonucleotide conjugate.
XX
XX SQ Sequence 16 BP; 1 A; 2 C; 8 G; 5 T; 0 other;
XX
XX Query Match 8.5%; Score 11.8; DB 1; Length 16;
XX Best Local Similarity 86.7%; Pred. No. 2.5e+02;
XX Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
XX QY 1655 AGCACCGGCTCACA 1669
XX | ||||| ||||| |||||
XX 15 AACACCGGCTCACA 1
XX
XX RESULT 176
XX AAV07038/c
XX ID AAV07038 standard; DNA; 16 BP.
XX
XX AC AAV07038;
XX
XX DT 08-JUL-1998 (first entry)
XX
XX DE Texaphyrin oligonucleotide conjugate.
XX
XX DE Texaphyrin oligonucleotide conjugate; dysprosium; metal complex;
XX hydrolytic cleavage activity; ribonucleic acid cleavage; RNA; ss.
XX
XX OS Synthetic.
XX
XX FH Key Location/Qualifiers
XX modified_base 1 /*tag= a
XX /*note= "A texaphyrin dysprosium metal complex, bound to
XX thymine via a linking phosphate group"
XX
XX PN WO9807733-A1.
XX
XX PD 26-FEB-1998.
XX
XX PF 20-AUG-1997; 97WO-US14682.
XX
XX PR 20-AUG-1996; 96US-0700277.
XX
XX (PHAR-) PHARMACYCLICS INC.
XX
XX Crofts SP, Magda D, Wright M;
XX
XX WPI; 1998-179049/16.
XX
XX PT New conjugates which have hydrolytic cleavage activity for RNA -
XX comprise a texaphyrin metal complex bound to an internal linkage of
XX an oligonucleotide
XX
XX PS Example 4; Page 53; 77pp; English.
XX
XX This sequence is shown in the specification. The invention relates to a
XX texaphyrin oligonucleotide conjugate, which has hydrolytic cleavage
XX activity for ribonucleic acid (RNA). It comprises a texaphyrin
XX metal complex bound to an internal linkage of an oligonucleotide or
XX oligonucleotide analogue. The conjugates may be used for the destruction
XX of retroviral RNA, messenger RNA, ribosomal RNA, RNA cofactors, transfer
XX RNA, small nuclear RNA and small cytoplasmic RNA. They may be used for
XX eliminating diseased or cancerous cells or tissues, in blood
XX purification protocols (in vivo or in vitro), in antiviral treatments,
XX or as diagnostic probes (e.g. in determination of the nucleotide
XX sequence of RNA or to detect polymorphisms in RNA). Administration of
XX the conjugates is, e.g., oral, topical or parenteral, especially topical
XX or intravenous. The conjugates are especially effective under conditions
XX where the concentration of RNA target exceeds that of available
XX conjugate.
XX
XX SQ Sequence 16 BP; 1 A; 2 C; 8 G; 5 T; 0 other;
XX
XX Query Match 8.5%; Score 11.8; DB 1; Length 16;

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XX

PS Example 8; Page 86; 201pp; English.

XX The present invention relates to a method for ameliorating the effects
CC of skin disorders. The method comprises contacting the skin with an
CC antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
CC inhibiting or reducing growth factor mediated cell proliferation,
CC inflammation and/or other disorders. The present sequence is an
CC oligonucleotide which can be used to design the antisense
CC oligonucleotides of the present invention (see AAF45151 and
CC AAF45153-P45161). The method is useful for ameliorating the effects of
CC psoriasis, ichthyosis, pityriasis, ruba, pilaris, serborrhea, keloids,
CC keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the
CC skin, a hyperneovascular condition such as a neovascular condition of the
CC retina, brain or skin, growth factor-mediated malignancies, other
CC sclerotic disease, kidney disease, hyperproliferation of the inside of
CC blood vessels or any other hyperplasia.

XX Sequence 15 BP; 3 A; 3 C; 7 G; 2 T; 0 other;

Query Match 8.5%; Score 11.8; DB 1; Length 15;
Best Local Similarity 86.7%; Pred. No. 2.2e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1722 GAGATGGAGATTGGC 1736
DB 1 GAGATGGAGCTGGC 15

RESULT 171
AAF52891

ID AAF52891 standard; DNA; 15 BP.

AC AAF52891;

DT 30-MAR-2001 (first entry)

DE IGF-I oligonucleotide #3851.

XX Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
KW skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;
KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;
KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
KW hyperneovascular condition; hyperplasia; kidney disease;
KW neovascular condition of the retina; ss.

OS Homo sapiens.

XX WO2000078341-A1.

PN PD

XX 28-DEC-2000.

PF 21-JUN-2000; 2000WO-AU00693.

XX 21-JUN-1999; 99US-0140345.

XX (MURD-) MURDOCH CHILDRENS RES INST.

PI Wright CJ, Werther GA, Edmondson SR;

XX WPI; 2001-041421/05.

XX Ameliorating the effects of a disorder, e.g. psoriasis, by
PT administering UV (ultra-violet) treatment (optional), and an antisense
PT nucleic acid that inhibits or reduces growth factor mediated cell
PT proliferation and/or inflammation -

XX Example 8; Page 86; 201pp; English.

XX The present invention relates to a method for ameliorating the effects
CC of skin disorders. The method comprises contacting the skin with an

CC antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
CC inhibiting or reducing growth factor mediated cell proliferation,
CC inflammation and/or other disorders. The present sequence is an
CC oligonucleotide which can be used to design the antisense
CC oligonucleotides of the present invention (see AAF45151 and
CC AAF45153-P45161). The method is useful for ameliorating the effects of
CC psoriasis, ichthyosis, pityriasis, ruba, pilaris, serborrhea, keloids,
CC keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the
CC skin, a hyperneovascular condition such as a neovascular condition of the
CC retina, brain or skin, growth factor-mediated malignancies, other
CC sclerotic disease, kidney disease, hyperproliferation of the inside of
CC blood vessels or any other hyperplasia.

XX Sequence 15 BP; 3 A; 3 C; 6 G; 3 T; 0 other;

Query Match 8.5%; Score 11.8; DB 1; Length 15;
Best Local Similarity 86.7%; Pred. No. 2.2e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1723 AGATGGAGATTGGCT 1737
DB 1 AGATGGAGCTGGCT 15

RESULT 172
ABV99795

ID ABV99795 standard; DNA; 15 BP.

XX AC ABV99795;

XX 24-FEB-2003 (first entry)

XX Human PFKFB2 allele specific oligonucleotide primer #21.

XX Human; 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 2; PFKFB2;
KW cytosolic; antidiabetic; gene therapy; cancer; diabetes; ss;
KW ASO; allele specific oligonucleotide; primer; polymorphism.

XX Homo sapiens.

XX WO200194363-A2.

XX 13-DEC-2001.

XX 07-JUN-2001; 2001WO-US18458.

XX 07-JUN-2000; 2000US-209935P.

XX (GENA-) GENAISSANCE PHARM INC.

XX Duda A, Kazemi A, Koshy B;

XX WPI; 2002-566434/60.

XX New 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 2 (PFKFB2)
PT gene variants, for improving efficiency and reliability in the
PT development of drugs for treating diseases associated with PFKFB2
PT activity e.g. cancer -

XX Claim 16; Page 13; 95pp; English.

XX The invention relates to a novel human 6-phosphofructo-2-kinase/
CC fructose-2,6-bisphosphatase 2 (PFKFB2) isogene. The PFKFB2 of the
CC invention has cytosolic and antidiabetic activity. The polynucleotides
CC may have a use in gene therapy. The identified candidate agents targeting
CC PFKFB2, are useful for treating cancer and diabetes. The methods of the
CC invention are useful for improving the efficiency and reliability of
CC several steps in the discovery and development of drugs for treating
CC diseases associated with PFKFB2 activity. The present sequence represents
CC a allele specific oligonucleotide (ASO) primer used in the invention to
CC detect PFKFB2 gene polymorphisms.

XX DR WPI; 2001-041421/05.
 XX PT Ameliorating the effects of a disorder, e.g. psoriasis, by
 PT administering UV (ultra-violet) treatment (optional) and an antisense
 PT nucleic acid that inhibits or reduces growth factor mediated cell
 PT proliferation and/or inflammation -
 XX PS Example 7; Page 48; 201pp; English.
 XX CC The present invention relates to a method for ameliorating the effects
 CC of skin disorders. The method comprises contacting the skin with an
 CC antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
 CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
 CC inhibiting or reducing growth factor mediated cell proliferation,
 CC inflammation and/or other disorders. The present sequence is an
 CC oligonucleotide which can be used to design the antisense
 CC oligonucleotides of the present invention (see AAF45151 and
 CC AAF45153-F45161). The method is useful for ameliorating the effects of
 CC psoriasis, ichthyosis, pityriasis, ruba, pilaris, serborrhea, keloids,
 CC keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the
 CC skin, a hyperneovascular condition such as a neovascular condition of the
 CC retina, brain or skin, growth factor-mediated malignancies, other
 CC sclerotic disease, kidney disease, hyperproliferation of the inside of
 CC blood vessels or any other hyperplasia.
 XX SQ Sequence 15 BP; 3 A; 9 C; 1 G; 2 T; 0 other;
 Query Match 8.5%; Score 11.8; DB 1; Length 15;
 Best Local Similarity 86.7%; Pred. No. 2.2e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 1696 GTGGTGGAGCTGGG 1710
 Db 15 GGGGTGGAGCTGGG 1
 RESULT 169
 AAF52889
 ID AAF52889 standard; DNA; 15 BP.
 XX AC AAF52889;
 XX DT 30-MAR-2001 (first entry)
 XX DE IGF-I oligonucleotide #3849.
 KW Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
 KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
 KW skin disorder; insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;
 KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
 KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;
 KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
 KW hyperneovascular condition; hyperplasia; kidney disease;
 KW neovascular condition of the retina; ss.
 XX OS Homo sapiens.
 XX PN WO200078341-A1.
 XX PD 28-DEC-2000.
 XX PF 21-JUN-2000; 2000WO-AU00693.
 XX PR 21-JUN-1999; 99US-0140345.
 XX PA (MURD-) MURDOCH CHILDRENS RES INST.
 XX PI Wraight CJ, Werther GA, Edmondson SR;
 XX WPI; 2001-041421/05.
 XX PT Ameliorating the effects of a disorder, e.g. psoriasis, by
 PT administering UV (ultra-violet) treatment (optional) and an antisense
 PT nucleic acid that inhibits or reduces growth factor mediated cell
 PT proliferation and/or inflammation -

PT administering UV (ultra-violet) treatment (optional) and an antisense
 PT nucleic acid that inhibits or reduces growth factor mediated cell
 PT proliferation and/or inflammation -
 XX PS Example 8; Page 86; 201pp; English.
 XX CC The present invention relates to a method for ameliorating the effects
 CC of skin disorders. The method comprises contacting the skin with an
 CC antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
 CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
 CC inhibiting or reducing growth factor mediated cell proliferation,
 CC inflammation and/or other disorders. The present sequence is an
 CC oligonucleotide which can be used to design the antisense
 CC oligonucleotides of the present invention (see AAF45151 and
 CC AAF45153-F45161). The method is useful for ameliorating the effects of
 CC psoriasis, ichthyosis, pityriasis, ruba, pilaris, serborrhea, keloids,
 CC keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the
 CC skin, a hyperneovascular condition such as a neovascular condition of the
 CC retina, brain or skin, growth factor-mediated malignancies, other
 CC sclerotic disease, kidney disease, hyperproliferation of the inside of
 CC blood vessels or any other hyperplasia.
 XX SQ Sequence 15 BP; 3 A; 2 C; 8 G; 2 T; 0 other;
 Query Match 8.5%; Score 11.8; DB 1; Length 15;
 Best Local Similarity 86.7%; Pred. No. 2.2e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 1721 GGAGATGGAGATTGG 1735
 Db 1 GGAGATGGAGCTGG 15
 RESULT 170
 AAF52890
 ID AAF52890 standard; DNA; 15 BP.
 XX AC AAF52890;
 XX DT 30-MAR-2001 (first entry)
 XX DE IGF-I oligonucleotide #3850.
 KW Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
 KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
 KW skin disorder; insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;
 KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
 KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;
 KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
 KW hyperneovascular condition; hyperplasia; kidney disease;
 KW neovascular condition of the retina; ss.
 XX OS Homo sapiens.
 XX PN WO200078341-A1.
 XX PD 28-DEC-2000.
 XX PF 21-JUN-2000; 2000WO-AU00693.
 XX PR 21-JUN-1999; 99US-0140345.
 XX PA (MURD-) MURDOCH CHILDRENS RES INST.
 XX PI Wraight CJ, Werther GA, Edmondson SR;
 XX WPI; 2001-041421/05.
 XX PT Ameliorating the effects of a disorder, e.g. psoriasis, by
 PT administering UV (ultra-violet) treatment (optional) and an antisense
 PT nucleic acid that inhibits or reduces growth factor mediated cell
 PT proliferation and/or inflammation -

XX PD 02-JUN-2000.
 XX PF 07-OCT-1999; 99WO-JP05527.
 XX PR 26-NOV-1998; 98JP-0335151.
 XX PA (SHIO) SHIONOGI & CO LTD.
 XX PI Moribe T, Kaneshige T;
 XX DR WPI; 2000-400097/34.

PT Simple, rapid and accurate method for distinguishing HLA class I allele
 PT type with possibility of mechanization and automation, applicable in
 PT judging donor-recipient compatibility during organ transplant and
 PT disease diagnosis -

PS Claim 8; Page 56; 83pp; Japanese.

CC The present invention describes a method for distinguishing a human
 CC leukocyte antigen (HLA) class I antigen or allele by a combination
 CC of polymerase chain reaction (PCR) using a primer pair whereby all
 CC HLA-A, -B or -C alleles can be amplified or using reverse hybridisation
 CC analysis comprising a DNA probe covalently bonded to microtitre plate
 CC wells which are hybridisable specifically with the base sequence of at
 CC least one specific HLA-A, -B or -C allele. The method is applicable in
 CC gene typing, judging donor-recipient compatibility during organ
 CC transplant and correlation analysis for diagnosis of various diseases.
 CC The method is simple, rapid and accurate, with possibility of
 CC mechanisation and automation, without the problems encountered by using
 CC the prior-art techniques. AA66943 to AA67072 represent oligonucleotide
 CC probes and PCR primers for use in the method of the present invention.

SQ Sequence 15 BP; 4 A; 3 C; 6 G; 2 T; 0 other;

Query Match 8.5%; Score 11.8; DB 1; Length 15;
 Best Local Similarity 86.7%; Pred. No. 2.2e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1734 GGCTCCCAACTGCTC 1748
 ||||| ||||| |||||
 DB 15 GGCTCTCACTGCTC 1

RESULT 167
 AAF47174/c
 ID AAF47174 standard; DNA; 15 BP.

XX AC AAF47174;

XX DT 30-MAR-2001 (first entry)

XX DE IGFBP3 oligonucleotide #594.

XX Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
 KW cytostatic; dermatological; cardiant; virucide; opthalmological; keloid;
 KW skin disorder; insulin-like Growth Factor 1 receptor; IGF-1; ptyriasis;
 KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
 KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;
 KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
 KW hyperneovascular condition; hyperplasia; kidney disease;
 KW neovascular condition of the retina; ss.

XX Homo sapiens.

XX PN WO200078341-A1.

XX PD 28-DEC-2000.

XX PF 21-JUN-2000; 2000WO-AU00693.

XX PR 21-JUN-1999; 99US-0140345.

XX PA (MURD-) MURDOCH CHILDRENS RES INST.
 XX PI Wright CJ, Werther GA, Edmondson SR;
 XX DR WPI; 2001-041421/05.

XX Ameliorating the effects of a disorder, e.g. psoriasis, by
 PT administering UV (ultra-violet) treatment (optional) and an antisense
 PT nucleic acid that inhibits or reduces growth factor mediated cell
 PT proliferation and/or inflammation -

XX Example 7; Page 48; 20pp; English.

XX The present invention relates to a method for ameliorating the effects
 CC of skin disorders. The method comprises contacting the skin with an
 CC antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
 CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
 CC inhibiting or reducing growth factor mediated cell proliferation,
 CC inflammation and/or other disorders. The present sequence is an
 CC oligonucleotide which can be used to design the antisense
 CC oligonucleotides of the present invention (see AAP45151 and
 CC AAP45153-P45161). The method is useful for ameliorating the effects of
 CC psoriasis, ichthyosis, pityriasis, ruba, pilaris, serborrhea, keloids,
 CC keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the
 CC skin, a hyperneovascular condition such as a neovascular condition of the
 CC retina, brain or skin, growth factor-mediated malignancies, other
 CC sclerotic disease, kidney disease, hyperproliferation of the inside of
 CC blood vessels or any other hyperplasia.

SQ Sequence 15 BP; 4 A; 7 C; 1 G; 3 T; 0 other;

Query Match 8.5%; Score 11.8; DB 1; Length 15;
 Best Local Similarity 86.7%; Pred. No. 2.2e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1698 GGTGGAAGTTCGGTT 1712
 ||||| ||||| |||||
 DB 15 GGTGGAAGTTCGGAT 1

RESULT 168

AAF47176/c

ID AAF47176 standard; DNA; 15 BP.

XX AC AAF47176;

XX DT 30-MAR-2001 (first entry)

XX DE IGFBP3 oligonucleotide #596.

XX Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
 KW cytostatic; dermatological; cardiant; virucide; opthalmological; keloid;
 KW skin disorder; insulin-like Growth Factor 1 receptor; IGF-1; ptyriasis;
 KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
 KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;
 KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
 KW hyperneovascular condition; hyperplasia; kidney disease;
 KW neovascular condition of the retina; ss.

XX Homo sapiens.

XX PN WO200078341-A1.

XX PD 28-DEC-2000.

XX PF 21-JUN-2000; 2000WO-AU00693.

XX PR 21-JUN-1999; 99JS-0140345.

XX PA (MURD-) MURDOCH CHILDRENS RES INST.

XX PI Wright CJ, Werther GA, Edmondson SR;

```

FT /mod base=
FT /note= "DYTXNH-(CH2)6-PSO3-cytosine, where DyTx is
FT dysprosium (III) texaphyrin"
XX
XX US5763172-A.
XX
XX 09-JUN-1998.
XX
XX 07-JUN-1995; 95US-0486962.
XX
XX 07-JUN-1995; 95US-0485581.
XX 21-JAN-1992; 92US-0822984.
XX 09-JUN-1993; 93US-0075123.
XX 14-APR-1994; 94US-0227370.
XX 09-JUN-1994; 94WO-US06284.
XX 26-MAY-1995; 95US-0452261.
XX 07-JUN-1995; 95US-0486962.
XX
XX (PHAR-) PHARMACVCLICS INC.
XX (TEXA ) UNIV TEXAS SYSTEM.
XX
XX Dow WC, Magda D, Millier RA, Sessler JL, Wright M;
XX
XX WPI; 1998-347306/30.
XX
XX Enhancing therapeutic activity of oligonucleotides in cells - using
XX conjugate comprising metalotexaphyrin, which hydrolyses phosphate
XX ester bonds of RNA, and oligo-nucleotide, which binds to targeted
XX RNA
XX
XX Example 8; Columns 29-30; 34pp; English.
XX
XX The invention relates to a method of enhancing the therapeutic activity
XX of oligonucleotides in cells. It comprises contacting a targeted
XX intracellular RNA in a cell with a metalotexaphyrin-oligonucleotide
XX conjugate. The contact is carried out under physiological conditions for
XX a time sufficient to hydrolyse the phosphate ester bond of the targeted
XX RNA. The metalotexaphyrin of the conjugate has catalytic activity for
XX phosphate ester bond hydrolysis. The oligonucleotide of the conjugate
XX has complementary binding affinity to the targeted RNA. The conjugate
XX may be used in antisense therapies for treating, e.g. cancer, viral
XX infections, autoimmune diseases and restenosis. The conjugate may also
XX be used as hydrolysis reagents for the detoxification of di- and
XX trialkyl phosphate esters, which are used in solvents, insecticides and
XX chemical nerve gases. The metalotexaphyrin complex enhances the
XX therapeutic activity of the oligonucleotide, not only by facilitating
XX cellular uptake of the oligonucleotide but also by hydrolysing target
XX RNA within the cell, independent of RNase H. Attachment to the complex
XX may also cause the oligonucleotide to take on some of the pharmacodynamic
XX an biodistribution properties of the texaphyrin, such as selective
XX localisation in tumours. The present sequence represents a metallo-
XX texaphyrin-oligonucleotide conjugate.
XX
XX Sequence 15 BP; 2 A; 4 C; 6 G; 3 T; 0 other;
XX
XX Query Match 8.5%; Score 11.8; DB 1; Length 15;
XX Best Local Similarity 86.7%; Pred. No. 2.2e+02;
XX Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
XX Qy 1659 CCAGGCTCACAGCTG 1673
XX |||||
XX 15 CCCGCTCACAGATG 1
XX
XX RESULT 165
XX AAX55348/c
XX ID AAX55348 standard; DNA; 15 BP.
XX AC AAX55348;
XX
XX 08-JUL-1999 (first entry)
XX
XX Soluble sc-TCR fusion protein constructing primer KC155.

```

```

XX
XX Fusion protein; soluble; immunoglobulin; Ig; sc-TCR; immune response;
XX single-chain T-cell receptor; T cell activation; therapy; PCR primer; ss.
XX
XX Synthetic.
XX
XX WO9918129-A1.
XX
XX 15-APR-1999.
XX
XX 28-SEP-1998; 98WO-US20263.
XX
XX 02-OCT-1997; 97US-0943086.
XX
XX (SUNO-) SUNOL MOLECULAR CORP.
XX
XX Card KF, Weidanz JA, Wong HC;
XX
XX WPI; 1999-264000/22.
XX
XX Soluble single-chain T cell receptor proteins
XX
XX Examples; Fig 6D; 145pp; English.
XX
XX The invention relates to a soluble fusion protein that comprises an
XX immunoglobulin (Ig) light chain constant region or fragment, covalently
XX linked to a single-chain T-cell receptor (sc-TCR) comprising a V-alpha
XX chain covalently linked to a V-beta chain by a peptide linker sequence.
XX The soluble fusion protein can induce an immune response in a mammal, so
XX that the mammal is immunized against pathogenic T cell receptor
XX epitopes. It can also be used to inhibit T-cell activation in a mammal.
XX The sc-TCR can be used to kill a cell containing a TCR specific ligand.
XX The sc-TCR proteins can be used in vitro to detect and analyse ligands.
XX such as peptides and MHC/HLA molecular components of TCR ligands. They
XX can also be used to detect T-cells with pathogenic properties. Other uses
XX include functional, cellular and molecular assays and structural
XX analysis. In vivo the sc-TCRs can compete with pathogenic T cells or to
XX raise antibodies for use in therapy. Fusion of an Ig light chain
XX constant region to a sc-TCR facilitates soluble expression. The sc-TCR
XX can be isolated in significant quantities without performing difficult
XX solubilisation, cleaving or re-folding steps. The fusion also confers a
XX means of detecting and purifying the fusion proteins by conventional
XX immunological methods. Sequences AAX55301 to AAX55445 represent PCR
XX primers used for constructing the fusion proteins of the invention.
XX
XX Sequence 15 BP; 1 A; 3 C; 5 G; 6 T; 0 other;
XX
XX Query Match 8.5%; Score 11.8; DB 1; Length 15;
XX Best Local Similarity 86.7%; Pred. No. 2.2e+02;
XX Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
XX Qy 1656 GCACCGCTCACAG 1670
XX |||||
XX 15 GAACCGACTCACAG 1
XX
XX RESULT 166
XX AAX66971/c
XX ID AAX66971 standard; DNA; 15 BP.
XX
XX AC AAX66971;
XX
XX 19-OCT-2000 (first entry)
XX
XX Human leukocyte antigen A allele DNA probe A539T SEQ ID NO:29.
XX
XX Human leukocyte antigen; HLA; class I allele type; probe; PCR primer;
XX amplification; hybridisation; organ transplant; gene typing;
XX diagnosis; ss.
XX
XX Homo sapiens.
XX
XX WO2000031295-A1.
XX
XX

```

OS Synthetic.
 OS Human immunodeficiency virus type 1.
 XX WO9727332-A1.
 XX PD. 31-JUL-1997.
 XX
 XX 17-JAN-1997; 97WO-EP00211.
 XX
 XX 25-JUN-1996; 96EP-0870081.
 XX
 XX 26-JAN-1996; 96EP-0870005.
 XX
 XX (INNO-) INNOGENETICS NV.
 XX
 XX Louwagie J, Rossau R, Stuyver L;
 XX WPI; 1997-393716/36.
 XX
 XX Determining susceptibility to antiviral drugs of reverse
 PT transcriptase containing viruses - useful for genotyping HIV RT and
 PT detecting antiviral resistant HIV
 XX
 XX Claim 13; Page 36; 59pp; English.

CC This sequence represents a probe for a wild type HIV reverse
 CC transcriptase (RT) gene fragment. This sequence can be used in the method
 CC of the invention for determining the susceptibility to antiviral drugs of
 CC viruses which contain RT genes and are present in a biological sample. It
 CC comprises: (1) releasing, isolating or concentrating the polynucleic
 CC acids present in a sample; (2) amplifying the relevant part of the RT
 CC genes present with at least one suitable primer pair; (3) hybridising the
 CC polynucleic acids of step (1) or (2) with at least two RT gene probes,
 CC the probes being applied to known locations on a solid support, and are
 CC capable of simultaneously hybridising to their respective target regions
 CC under appropriate hybridisation and wash condition allowing the detection
 CC of homologous targets, or with the probes hybridising specifically with a
 CC sequence complementary to any of the target sequences; (4) detecting the
 CC hybrids formed in step (3); and (4) inferring the nucleotide sequence at
 CC the codons of interest (codons 38-44, 47-53, 65-72, 73-77, 148-154,
 CC 180-187, 212-216, and 217-220), and/or the amino acids of the codons of
 CC interest and/or antiviral drug resistance spectrum, and possible the type
 CC of viral isolates involved from the differential hybridisation signals
 CC obtained in step (4). The method is specifically used to detect antiviral
 CC drug resistant strains of viruses containing RT genes, especially HIV
 CC retroviruses and Hepadnaviridae. The method can also be used for
 XX genotyping HIV RT.

XX Sequence 15 BP; 7 A; 1 C; 5 G; 2 T; 0 other;
 SQ Query Match 8.5%; Score 11.8; DB 1; Length 15;
 Best Local Similarity 86.7%; Pred. No. 2.2e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1717 GTACGAGATGGAGA 1731
 ||||| ||||| ||||| ||||| |||||
 DB 1 GTACAGAGATGGAAA 15

RESULT 163
 AAV54266/c
 ID AAV54266 standard; cDNA; 15 BP.
 XX
 XX AAV54266;
 AC

XX 29-DEC-1998 (first entry)
 DE Primer K155 used in the method of the invention.

XX PCR; primer; amplification; single chain T-cell receptor; scTCR; Vbc;
 XX bacteriophage coat protein; BCP; V-alpha chain; Vac; V-beta chain;
 XX immune response; T-cell receptor; TCR; cancer; allergy;
 XX T lymphocyte; ss.

OS Synthetic.
 XX WO9839482-A1.
 XX 11-SEP-1998.
 XX
 XX 05-MAR-1998; 98WO-US04274.
 XX
 XX 07-MAR-1997; 97US-0813781.
 XX
 XX (SUNO-) SUNOL MOLECULAR CORP.
 XX
 XX Card KP, Weidanz JA, Wong HC;
 XX WPI; 1998-506374/43.
 XX
 XX New soluble T cell receptor fusion proteins - comprise V-alpha
 PT chain, peptide linker, V-beta chain and bacteriophage coat protein,
 PT used to, e.g. develop products for modulating immune responses
 XX
 XX Disclosure; Fig 21D; 150pp; English.

XX The present primer was used to construct DNA vectors which were
 CC used in the method of the invention. The invention provides single
 CC chain T-cell receptor (scTCR) fusion proteins which comprise of a
 CC bacteriophage coat protein (BCP; e.g. gene III or VIII product)
 CC covalently linked to a scTCR comprising of a V-alpha chain (Vac)
 CC covalently linked to a V-beta chain (Vbc) by a peptide linker
 CC sequence. The BCP increases solubility of the scTCR fusion proteins,
 CC thereby enhancing yield and functionality. The scTCR fusion proteins
 CC are fully soluble and functional, and can be isolated in significant
 CC quantities without performing difficult solubilisation, cleaving or
 CC re-folding steps. The scTCR fusion proteins can be produced in a
 CC variety of formats including bacteriophage display libraries to screen
 CC for binding molecules which specifically bind the scTCR fusion
 CC proteins. The scTCRs are claimed to be useful for reducing an immune
 CC response by competing with an antigen with T-cell receptors (TCR)
 CC occurring on pathogenic T cells such as those accompanying cancer,
 CC infectious disease, allergy, etc. The scTCRs are also claimed to be
 CC useful for inducing an immune response for immunisation against TCR
 CC structures to reduce or eliminate the pathogenic or undesirable effects
 CC of T cells, and they can also be used for the production of antibodies
 CC and in diagnostic applications.

XX Sequence 15 BP; 1 A; 3 C; 5 G; 6 T; 0 other;
 SQ Query Match 8.5%; Score 11.8; DB 1; Length 15;
 Best Local Similarity 86.7%; Pred. No. 2.2e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1656 GCACCAGGCTCACAG 1670
 ||||| ||||| ||||| ||||| |||||
 DB 15 GAACCACTACTCACAG 1

RESULT 164
 AAV07304/c
 ID AAV07304 standard; DNA; 15 BP.
 XX
 XX AAV07304;
 AC

XX 14-AUG-1998 (first entry)
 DE Metallotexaphyrin-oligonucleotide conjugate #18.
 XX
 XX Metallocexaphyrin; dysprosium; europium; conjugate; RNase H;
 XX antisense therapy; ss.

OS Synthetic.
 XX Key Location/Qualifiers
 XX modified_base 1 /*tag= a
 FT

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FT FT /mod_base=
FT FT /note= "cytosine is modified by lutetium(III)texaphyrin
FT FT compound"
FT FT misc_binding 1..15
FT FT /*tag= b
FT FT /note= "this region binds to AAT650134"
FT FT 15
FT FT /*tag= c
FT FT /note= "Guanine is modified by a methoxy group"
PN W09609315-A1.
XX 28-MAR-1996.
XX 21-SEP-1995; 95WO-US12312.
XX 06-JUN-1995; 95US-0469177.
XX 21-SEP-1994; 94US-0310501.
XX (PHAR-) PHARMACYCLICS INC.
XX (TEXA ) UNIV TEXAS SYSTEM.
XX Hemmi GW, Iverson BL, Magda D, Mody TD, Sansom PI;
XX Sessler JL, Wright M;
XX WPI; 1996-200644/20.
DR Use of photosensitive texaphyrin compounds - for light-induced cleavage
XX of polymers of deoxyribonucleic acid in analyses or therapy
XX Example 8; Figure 3; 81pp; English.
XX The present sequence represents RNA coupled to a photosensitive
XX texaphyrin molecule, which was used in a new method for photocleavage of
XX DNA. Targeted intracellular light-induced cleavage of a selected DNA
XX comprises introducing into a cell a photosensitive texaphyrin (PT)
XX coupled to an oligonucleotide which is complementary to the selected DNA
XX and exposing the cell to light to cleave the DNA. Modulating the activity
XX of a selected DNA comprises contacting the DNA with a PT coupled to an
XX oligonucleotide which binds to the DNA and exposing the DNA-PT mixture
XX to light to cleave the DNA. These methods can be used e.g. in cleavage of
XX DNA in footprinting analysis, DNA sequencing, chromosome analyses, gene
XX isolation, recombinant DNA manipulations, mapping of large genomes and
XX chromosomes and for site-directed mutagenesis. They can also be used in
XX anti-viral therapy and for the treatment of cancers, inflammatory
XX responses that are caused by over expression of certain proteins,
XX infectious diseases and genetically-based disorders.
XX SQ Sequence 15 BP; 2 A; 4 C; 6 G; 3 U; 0 other;

Query Match 8.5%; Score 11.8; DB 1; Length 15;
Best Local Similarity 86.7%; Pred. No. 2.2e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1659 CCAGGCTCACAGCTG 1673
Db 15 CCCGCTCACAGATG 1

RESULT 161
AAT65005/c
ID AAT65005 standard; DNA; 15 BP.
XX AAT65005;
XX 25-MAR-2003 (updated)
XX 28-MAY-1997 (first entry)
XX Human chromosome 6 region q27 VNTR consensus repeat sequence.
XX Variable number of tandem repeat; VNTR; genetic marker; satellite;
XX polymorphism; cC16-111; probe; DNA fingerprinting; paternity;
XX forensic; diagnosis; ds.

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```

XX OS Homo sapiens.
XX FH Key Location/Qualifiers
XX FT repeat_unit 1..15
XX FT /*tag= b
XX FT /rpt_type= TANDEM
XX FT /note= "repeat units are 16 nucleotides long in the
XX FT VNTR region; the last nucleotide (not
XX FT included in this consensus sequence) can be
XX FT either T or C"
XX PN JPO8224100-A.
XX 03-SEP-1996.
XX 27-DEC-1991; 95JP-0337988.
XX 27-DEC-1991; 91JP-0359482.
XX 27-DEC-1991; 91JP-0337988.
XX (GANK-) ZH GAN KENYUKAI.
XX WPI; 1996-449912/45.
XX Human variable number of tandem repeat sequence - from chromosome 6
XX q27 region, has restriction fragment length polymorphism with MspI,
XX Real, TagI, BglII, PstI and PvuII and is useful for genetic
XX fingerprinting
XX Claim 1; Fig 2; 5pp; Japanese.
XX The present sequence is a consensus repeat corresponding to
XX nucleotides 1-15 of the degenerate sequence RMGRRRTGGGCCV which
XX is repeated in the variable number of tandem repeat (VNTR) sequence
XX located at the q27 position in human chromosome 6. The VNTR has a
XX restriction fragment length polymorphism (RFLP) with Msp I, Rsa I,
XX Tag I, Bgl II, Pst I and Pvu II, i.e. it has at least 9 alleles
XX between 4.4 kb and 1.8 kb with respect to Msp I, at least 11 alleles
XX between 5.5 kb and 1.7 kb with respect to Rsa I, at least 12 alleles
XX between 8.5 kb and 2.6 kb with respect to Tag I, at least 11 alleles
XX between 10 kb and 2.1 kb with respect to Bgl II, at least 10 alleles
XX between 5.2 kb and 0.5 kb with respect to Pst I, and at least 10
XX alleles between 10 kb and 2.3 kb with respect to Pvu II. The VNTR
XX sequence can be used as a probe to identify an individual, e.g. in
XX paternity or forensic analysis.
XX (Updated on 25-MAR-2003 to correct PF field.)
XX SQ Sequence 15 BP; 2 A; 2 C; 10 G; 1 T; 0 other;

Query Match 8.5%; Score 11.8; DB 1; Length 15;
Best Local Similarity 86.7%; Pred. No. 2.2e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1734 GGCTCCCACTCTC 1748
Db 15 GGCCCCCACCTCTC 1

RESULT 162
AAT98897
ID AAT98897 standard; DNA; 15 BP.
XX AAT98897;
XX 23-MAR-1998 (first entry)
XX Probe 41w19 for HIV RT gene wild type B40M41K43.
XX Reverse transcriptase gene; HIV; RT gene; antiviral drug susceptibility;
XX virus susceptibility; antiviral drug resistant viral strain; retrovirus;
XX Hepadnaviridae; HIV RT genotyping; probe; ss.

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AC	ABV90235;
XX	23-DEC-2002 (first entry)
XX	Human POSHL1 scanning oligonucleotide SEQ ID NO 948.
XX	Human; POSHL 1; SH3 domain; POSH-like signalling protein 1; oncogene;
KW	Rho GTPase; signal transduction; gene expression; cancer; vaccine;
KW	gene therapy; transgenic; ss.
XX	Homo sapiens.
OS	EP1239051-A2.
XX	11-SEP-2002.
PD	28-JAN-2002; 2002EP-0001165.
XX	30-JAN-2001; 2001WO-US00663.
PR	30-JAN-2001; 2001WO-US00664.
XX	30-JAN-2001; 2001WO-US00665.
PR	30-JAN-2001; 2001WO-US00666.
PR	30-JAN-2001; 2001WO-US00667.
PR	30-JAN-2001; 2001WO-US00668.
PR	30-JAN-2001; 2001WO-US00669.
PR	30-JAN-2001; 2001WO-US00670.
PR	23-MAY-2001; 2001US-0864761.
XX	10-OCT-2001; 2001US-0328205.
XX	(AEOM-) AEOMICA INC.
PA	Shannon M;
PI	WPI; 2002-684061/74.
XX	Novel human SH3 domain (POSH)-like signalling protein 1 polypeptide,
XX	POSHL-1, useful for treating disorders associated with decreased
PT	expression or activity of human POSHL1 -
PT	Example 2; SEQ ID NO 948; 60pp + Sequence Listing; English.
XX	The invention relates to an isolated SH3 domain (POSH)-like signalling
XX	protein 1 (POSHL1) polypeptide (I), comprising a sequence of 730 amino
CC	acids (SI, AB883999), a sequence having 65% sequence identity to (SI),
CC	(SI) having 95% deviations, especially conservative substitutions or a
CC	fragment of the sequences comprising at least 8 contiguous amino acids.
CC	Human POSHL1 is a proto-oncogene/oncogene product that functions as an
CC	adaptor protein that interacts with Rho family small GTPases as well as
CC	downstream components of the signal transduction pathway. (I) is useful
CC	for identifying a specific binding partner. (I) and nucleic acids (II)
CC	encoding (I) are useful for diagnosing, monitoring disease and treating
CC	caused by altered expression of human POSHL1 including diagnosing and
CC	treating cancer, they useful in the development of vaccines and (II) is
CC	useful in gene therapy. (II) is useful for constructing microarrays which
CC	are useful for measuring and for surveying gene expression and creating
CC	transgenic non-human animals capable of producing the proteins. The
CC	present sequence is that of a scanning oligonucleotide useful in examples
CC	of the invention.
CC	Note: The present sequence did not form part of the printed
CC	specification, but is based on sequence information supplied to Derwent
CC	by the European Patent Office.
XX	Sequence 17 BP; 6 A; 2 C; 7 G; 2 T; 0 other;
SQ	
Query Match 8.6%; Score 12; DB 1; Length 17;	
Best Local Similarity 100.0%; Pred. No. 2.5e+02;	
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	

RESULT 157
ABV90236
ID ABV90236 standard; DNA; 17 BP.
XX
XX AC ABV90236;
XX
XX AC
XX
DT 23-DEC-2002 (first entry)
XX
XX Human POSHL1 scanning oligonucleotide SEQ ID NO 949.
DE
DE DE
XX
KW Hmo; POSHL 1; SH3 domain; POSH-like signalling protein 1; oncogene;
KW Rho GTPase; signal transduction; gene expression; cancer; vaccine;
KW gene therapy; transgenic; ss.
XX
XX OS Homo sapiens.
XX
XX EP1233051-A2.
XX
XX 11-SEP-2002.
XX
XX 28-JAN-2002; 2002EP-0001165.
XX
XX 30-JAN-2001; 2001WO-US000663.
XX 30-JAN-2001; 2001WO-US000664.
XX 30-JAN-2001; 2001WO-US000665.
XX 30-JAN-2001; 2001WO-US000666.
XX 30-JAN-2001; 2001WO-US000667.
XX 30-JAN-2001; 2001WO-US000668.
XX 30-JAN-2001; 2001WO-US000669.
XX 30-JAN-2001; 2001WO-US000670.
XX 23-MAY-2001; 2001US-0884761.
XX 10-OCT-2001; 2001US-0328205.
XX
XX (ABOM-) ABOMICA INC.
XX
XX Shannon M;
XX
XX WPI; 2002-684061/74.
XX
XX Novel human SH3 domain (POSH)-like signalling protein 1 polypeptide,
PT POSHL-1, useful for treating disorders associated with decreased
PT expression or activity of human POSHL1 -
XX
XX Example 2; SEQ ID NO 949; 60pp + sequence listing; English.
XX
XX The invention relates to an isolated SH3 domain (POSH)-like signalling
CC protein 1 (POSHL 1) polypeptide (I), comprising a sequence of 730 amino
CC acids (S1, ABB83999), a sequence having 65% sequence identity to (S1),
CC (S1) having 9% deviations, especially conservative substitutions or a
CC fragment of the sequences comprising at least 8 contiguous amino acids.
CC Human POSHL 1 is a proto-oncogene/oncogene product that functions as an
CC adaptor protein that interacts with Rho family small GTPases as well as
CC downstream components of the signal transduction pathway. (I) is useful
CC for identifying a specific binding partner. (I) and nucleic acids (II)
CC encoded (I) are useful for diagnosing, monitoring disease and treating
CC caused by altered expression of human POSHL1 including diagnosing and
CC treating cancer, they useful in the development of vaccines and (II) is
CC useful in gene therapy. (II) is useful for constructing microarrays which
CC are useful for measuring and for surveying gene expression and creating
CC transgenic non-human animals capable of producing the proteins. The
CC present sequence is that of a scanning oligonucleotide useful in examples
CC of the invention.
CC Note: the present sequence did not form part of the printed
CC specification, but is based on sequence information supplied to Derwent
CC by the European Patent Office.
XX
XX Sequence 17 BP; 6 A; 2 C; 7 G; 2 T; 0 other;
SQ
Query Match 8.6%; Score 12; DB 1; Length 17;
Best Local Similarity 100.0%; Pred.No. 2.5e+02;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0
QV 1645 GCAGAGGCGAAG 1656

Qy 1645 GCAGAAGGCAAG 1656
db . 3 GCAGAAGGCAAG 14

```
KW gene therapy; transgenic; ss.
XX Homo sapiens.
OS
XX EF1239051-A2.
XX 11-SEP-2002.
XX
XX 28-JAN-2002; 2002EP-0001165.
XX
XX 30-JAN-2001; 2001WO-US00663.
XX 30-JAN-2001; 2001WO-US00664.
XX 30-JAN-2001; 2001WO-US00665.
XX 30-JAN-2001; 2001WO-US00666.
XX 30-JAN-2001; 2001WO-US00667.
XX 30-JAN-2001; 2001WO-US00668.
XX 30-JAN-2001; 2001WO-US00669.
XX 30-JAN-2001; 2001WO-US00670.
XX 23-MAY-2001; 2001US-0864761.
XX 10-OCT-2001; 2001US-0328205.
XX (ABOM-) ABOMICA INC.
XX Shannon M;
XX WPI; 2002-684061/74.
XX
XX Novel human SH3 domain (POSH)-like signalling protein 1 polypeptide,
XX POSHL-1, useful for treating disorders associated with decreased
XX expression or activity of human POSHL1 -
XX
XX Example 2; SEQ ID NO 946; 60pp + Sequence Listing; English.
XX
XX The invention relates to an isolated SH3 domain (POSH)-like signalling
XX protein 1 (POSHL 1) polypeptide (I), comprising a sequence of 730 amino
XX acids (S1, ABB83999), a sequence having 65% sequence identity to (S1),
XX (S1) having 95% deviations, especially conservative substitutions or a
XX fragment of the sequences comprising at least 8 contiguous amino acids.
XX Human POSHL 1 is a proto-oncogene/oncogene product that functions as an
XX adaptor protein that interacts with Rho family small GTPases as well as
XX downstream components of the signal transduction pathway. (I) is useful
XX for identifying a specific binding partner. (I) and nucleic acids (II)
XX encoding (I) are useful for diagnosing, monitoring disease and treating
XX caused by altered expression of human POSHL1 including diagnosing and
XX treating cancer, they are useful in the development of vaccines and (II) is
XX useful in gene therapy. (II) is useful for constructing microarrays which
XX are useful for measuring and for surveying gene expression and creating
XX transgenic non-human animals capable of producing the proteins. The
XX present sequence is that of a scanning oligonucleotide useful in examples
XX of the invention.
XX Note: The present sequence did not form part of the printed
XX specification, but is based on sequence information supplied to Derwent
XX by the European Patent Office.
XX
XX Sequence 17 BP; 5 A; 3 C; 7 G; 2 T; 0 other;
XX
XX Query Match 8.6%; Score 12; DB 1; Length 17;
XX Best Local Similarity 100.0%; Pred. No. 2.5e+02;
XX Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 1645 GCAGAAGGCAAG 1656
XX DB 5 GCAGAAGGCAAG 16
XX
XX RESULT 155
XX ABV90234
XX ID ABV90234 standard; DNA; 17 BP.
XX AC
XX ABV90234;
XX
XX DT 23-DEC-2002 (first entry)
XX
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```
DE Human POSHL1 scanning oligonucleotide SEQ ID NO 947.
XX
XX Human; POSHL 1; SH3 domain; POSH-like signalling protein 1; oncogene;
XX Rho GTPase; signal transduction; gene expression; cancer; vaccine;
XX gene therapy; transgenic; ss.
XX
XX Homo sapiens.
XX
XX EF1239051-A2.
XX
XX 11-SEP-2002.
XX
XX 28-JAN-2002; 2002EP-0001165.
XX
XX 30-JAN-2001; 2001WO-US00663.
XX 30-JAN-2001; 2001WO-US00664.
XX 30-JAN-2001; 2001WO-US00665.
XX 30-JAN-2001; 2001WO-US00666.
XX 30-JAN-2001; 2001WO-US00667.
XX 30-JAN-2001; 2001WO-US00668.
XX 30-JAN-2001; 2001WO-US00669.
XX 30-JAN-2001; 2001WO-US00670.
XX 23-MAY-2001; 2001US-0864761.
XX 10-OCT-2001; 2001US-0328205.
XX (ABOM-) ABOMICA INC.
XX Shannon M;
XX WPI; 2002-684061/74.
XX
XX Novel human SH3 domain (POSH)-like signalling protein 1 polypeptide,
XX POSHL-1, useful for treating disorders associated with decreased
XX expression or activity of human POSHL1 -
XX
XX Example 2; SEQ ID NO 947; 60pp + Sequence Listing; English.
XX
XX The invention relates to an isolated SH3 domain (POSH)-like signalling
XX protein 1 (POSHL 1) polypeptide (I), comprising a sequence of 730 amino
XX acids (S1, ABB83999), a sequence having 65% sequence identity to (S1),
XX (S1) having 95% deviations, especially conservative substitutions or a
XX fragment of the sequences comprising at least 8 contiguous amino acids.
XX Human POSHL 1 is a proto-oncogene/oncogene product that functions as an
XX adaptor protein that interacts with Rho family small GTPases as well as
XX downstream components of the signal transduction pathway. (I) is useful
XX for identifying a specific binding partner. (I) and nucleic acids (II)
XX encoding (I) are useful for diagnosing, monitoring disease and treating
XX caused by altered expression of human POSHL1 including diagnosing and
XX treating cancer, they are useful in the development of vaccines and (II) is
XX useful in gene therapy. (II) is useful for constructing microarrays which
XX are useful for measuring and for surveying gene expression and creating
XX transgenic non-human animals capable of producing the proteins. The
XX present sequence is that of a scanning oligonucleotide useful in examples
XX of the invention.
XX Note: The present sequence did not form part of the printed
XX specification, but is based on sequence information supplied to Derwent
XX by the European Patent Office.
XX
XX Sequence 17 BP; 5 A; 2 C; 7 G; 3 T; 0 other;
XX
XX Query Match 8.6%; Score 12; DB 1; Length 17;
XX Best Local Similarity 100.0%; Pred. No. 2.5e+02;
XX Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 1645 GCAGAAGGCAAG 1656
XX DB 4 GCAGAAGGCAAG 15
XX
XX RESULT 156
XX ABV90235
XX ID ABV90235 standard; DNA; 17 BP.
XX
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QY 1649 AAGCAAGCACCAG 1662
:|||||
Db 14 RAGCAAGCAGCAG 1

RESULT 150
AAS98750
ID AAS98750 standard; DNA; 15 BP.

XX AC AAS98750;

XX DT 26-MAR-2002 (first entry)

XX DE Colony stimulating factor 1 receptor (CSF1R) oligonucleotide #116.

XX KW Colony stimulating factor 1 receptor; CSF1R; polymorphic variant;
KW cytosatic; gene therapy; malignant histiocytosis; isogene;
KW myeloid malignancy; inflammatory disorder; transgenic animal;
KW haplotype; genotype; human; allele specific oligonucleotide; ASO;
KW primer; ss.

XX OS Homo sapiens.

XX PN WO200179225-A2.

XX PD 25-OCT-2001.

XX PF 12-APR-2001; 2001WO-US12044.

XX PR 12-APR-2000; 2000US-196411P.

XX PA (GENA-) GENAISSANCE PHARM INC.

XX PI Chew A, Choi JY, Koshy B;

XX DR WPI; 2002-075058/10.

XX PT Novel polymorphic variants of colony stimulating factor 1 receptor
PT useful in studying expression and function of the protein, useful for
PT screening candidate drugs to treat diseases e.g. inflammatory disorders

XX PS Claim 15; Page 16; 164pp; English.

CC The invention describes a novel isolated polynucleotide (I) comprising a
CC sequence which is a polymorphic variant (PV) of a reference sequence for
CC colony stimulating factor 1 receptor (CSF1R) gene, found on the
CC polypeptide are useful for improving the discovery and development of
CC drugs for treating diseases associated with CSF1R activity, e.g.,
CC malignant histiocytosis, myeloid malignancies, and inflammatory disorders
CC and the haplotypes can be used to validate CSF1R as a candidate target
CC for treating a specific condition or disease predicted to be associated
CC with CSF1R activity. Genotyping the CSF1R gene of an individual can also
CC be used in developing diagnostic tests and therapeutic treatments. (I) is
CC useful in studying the expression and function of CSF1R, and in
CC expressing CSF1R protein for use in screening for candidate drugs to
CC treat diseases related to CSF1R activity and in studying the effect of
CC the variation on the biological activity of CSF1R as well as on the
CC binding affinity of candidate drugs targeting CSF1R. Antibodies are
CC useful in a variety of diagnostic and prognostic formats and therapeutic
CC methods. A transgenic animal is useful in studying expression of the
CC CSF1R isogenes in vivo, for in vivo screening and testing of drugs
CC targeted against CSF1R protein, and for testing the efficacy of
CC therapeutic agents and compounds. Allele specific oligonucleotides (ASO)
CC are useful as probes and primers, and for assaying a polymorphism in the
CC target region. Without requiring any a priori knowledge of the phenotypic
CC effect of any particular CSF1R or haplotype the invention provides a
CC method for identifying lead compounds that are more likely to show
CC efficacy in clinical trials. This sequence is an allele specific
CC oligonucleotide primer used for detecting CSF1R gene polymorphisms,
CC described in the method of the invention.

SQ Sequence 15 BP; 2 A; 3 C; 6 G; 3 T; 1 other;

Query Match 8.6%; Score 12; DB 1; Length 15;
Best Local Similarity 85.7%; Pred. No. 2e+02;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1726 TGGAGATTGCTCC 1739

Db 2 TGGAGAGTGCTTC 15

RESULT 151

ID AAL44022 standard; DNA; 16 BP.

XX AC AAL44022;

XX DT 27-SEP-2002 (first entry)

XX DE Human cytochrome P4502A6 (CYP4502A6 or CYP2A6) gene sequencing primer 3.
XX KW Human; PCR; sequencing; primer; ss; single nucleotide polymorphism; SNP;
KW cytochrome; P4502A6; CYP4502A6; CYP2A6; chromosome 19;
KW steroid metabolism; drug detoxification; xenobiotic detoxification;
KW procarcinogen activation; inflammation; asthma; habitual smoking.

XX OS Homo sapiens.

XX PN WO200194633-A1.

XX PD 13-DEC-2001.

XX PF 01-JUN-2001; 2001WO-US17781.

XX PR 02-JUN-2000; 2000US-0586376.

XX PA (DNAS-) DNA SCI INC.

XX PI Guida M, Hall J;

XX DR WPI; 2002-566448/60.

XX PT New isolated polynucleotide, useful to screen individuals for asthma,
XX inflammation and susceptibility to habitual smoking, comprises base
XX variation from that of known human cytochrome P4502A6 sequence

XX Example 1; Page 26; 48pp; English.

CC The invention comprises the identification of genetic polymorphisms in
CC the human cytochrome P4502A6 (CYP4502A6 or CYP2A6) gene. The human
CC cytochrome P4502A6 gene is located on chromosome 19 and encodes an enzyme
CC that plays a role in the metabolism of steroids, the detoxification of
CC drugs and xenobiotics, and the activation of procarcinogens. The P4502A6
CC polymorphisms identified in the invention are useful for evaluating an
CC individual's risk of developing asthma or an individual's propensity for
CC cigarette consumption. The P4502A6 DNA sequences of the invention are
CC useful for identifying individuals having a polymorphic genotype and to
CC screen individuals for altered metabolism for cytochrome P4502A6
CC substrates. The P4502A6 DNA sequences of the invention are also useful
CC for identifying individuals who are at risk from inflammation, asthma,
CC habitual smoking and diseases that result from environmental or
CC occupational exposures to dangerous substances. The present DNA sequence
CC represents a human cytochrome P4502A6 sequencing primer.

SQ Sequence 16 BP; 1 A; 1 C; 8 G; 6 T; 0 other;

Query Match 8.6%; Score 12; DB 1; Length 16;

Best Local Similarity 100.0%; Pred. No. 2.3e+02;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1634 TGGGGCTTGTAG 1645

Db 1 TGGGGCTTGTAG 12

```
CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 13 BP; 5 A; 6 C; 0 G; 2 T; 0 other;
Query Match      8.6%; Score 12; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1705 GTTGGGTTAGGA 1716
DB 12 GTTGGGTTAGGA 1

RESULT 148
ABL52231
ID ABL52231 standard; DNA; 15 BP.
XX
AC ABL52231;
XX
DT 15-JUL-2002 (first entry)
XX
DE Human PHKG2 allele specific oligonucleotide primer SEQ ID NO:18.
XX
KW Human; phosphorylase kinase gamma 2 (testis); PHKG2; enzyme; SNP;
KW phosphorylase kinase gamma 2; single nucleotide polymorphism;
KW polymorphic; hepatotropic; gene therapy; glycogen storage disease;
KW liver cirrhosis; allele specific oligonucleotide; ASO; primer; ss.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT misc_feature 14
FT /*tag= a
FT /note= "polymorphic site indicated by an ambiguity base"
XX
PN WO200194365-A2.
XX
PD 13-DEC-2001.
XX
PF 11-JUN-2001; 2001WO-US18814.
XX
PR 09-JUN-2000; 2000US-210568P.
XX
PA (GENA-) GENAISSANCE PHARM INC.
XX
PI Choi JY, Koshy B, Sanchis A, Sausker EA;
XX
DR WPI; 2002-401587/43.
XX
PT New variants of phosphorylase kinase gamma 2 isogenes, useful for
PT improving efficiency and reliability in the development of drugs for
PT treating diseases e.g. liver cirrhosis.
XX
PS Claim 16; Page 13; 76pp; English.
XX
CC The present invention describes an isolated polynucleotide (I) comprising
CC a nucleotide sequence which is a polymorphic variant of a reference
CC sequence for human phosphorylase kinase gamma2 (testis) (PHKG2) gene or
CC its fragment, or a polymorphic variant of a reference sequence for a
CC PHKG2 cDNA or its fragment. Also described is an isolated polypeptide
CC (II) comprising an amino acid sequence which is a polymorphic variant of
CC a reference sequence for PHKG2 protein or its fragment, where the
CC acids, and the polymorphic variant comprises one or more variant amino
CC acids selected from glutamic acid at a position corresponding to amino acid
CC acid position 153 and tryptophan at position corresponding to amino acid
CC position 329. (I) has hepatotropic activity and can be used in gene
CC therapy. (II) is useful in screening for drugs targeting (II), by
CC contacting a PHKG2 polymorphic variant with a candidate agent and
CC assaying for binding activity. The identified candidate agents targeting
CC PHKG2, are useful for treating liver cirrhosis and glycogen storage
CC diseases. The present sequence represents an allele specific
CC oligonucleotide (ASO) primer for the PHKG2 gene, which is used in the
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CC exemplification of the present invention.
XX
SQ Sequence 15 BP; 1 A; 10 C; 0 G; 3 T; 1 other;
Query Match      8.6%; Score 12; DB 1; Length 15;
Best Local Similarity 85.7%; Pred. No. 2e+02;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1736 CTCCTCACTCTCTCC 1749
DB 2 CTCCTCACTCTCTSC 15

RESULT 149
AAD26061/C
ID AAD26061 standard; DNA; 15 BP.
XX
AC AAD26061;
XX
DT 26-MAR-2002 (first entry)
XX
DE Human apolipoprotein E (APOE) gene polymorphism detecting ASO primer #12.
XX
KW Human; antilipaeamic; neuroprotective; nootropic; genetic variant; APOE;
KW apolipoprotein E; haplotyping; familial dysbetalipoproteinemia; therapy;
KW genotyping; type III hyperlipoproteinemia; Alzheimer's disease;
KW atherosclerosis; polymorphism; allele specific oligonucleotide;
KW ASO primer; ss.
XX
OS Homo sapiens.
XX
PN WO200179234-A2.
XX
PD 25-OCT-2001.
XX
PF 16-APR-2001; 2001WO-US12303.
XX
PR 14-APR-2000; 2000US-197188P.
XX
PA (GENA-) GENAISSANCE PHARM INC.
XX
PI Choi JY, Kliem SE, Koshy B, Lee HH;
XX
DR WPI; 2002-075064/10.
XX
PT Genotyping human apolipoprotein gene of individual for determining
PT haplotype of individual, involves determining identity of nucleotide
PT pair at specific polymorphic sites for two copies of gene.
XX
PS Claim 16; Page 14; 78pp; English.
XX
CC The patent discloses novel genetic variants of human apolipoprotein
CC E (APOE) gene. The invention also relates to compositions and methods
CC for haplotyping and/or genotyping the APOE gene. The haplotyping
CC methods of the invention are useful for improving the efficacy and
CC reliability of several steps in the discovery and development of
CC drugs for treating diseases associated with APOE activity, e.g.
CC familial dysbetalipoproteinemia, type III hyperlipoproteinemia,
CC atherosclerosis, and Alzheimer's disease. They are useful to validate
CC APOE as a candidate agent for treating a specific condition or disease
CC predicted to be associated with APOE activity and in the design of
CC clinical trials of candidate drugs for treating a specific condition
CC or disease predicted to be associated with APOE activity. Genotyping
CC or haplotyping methods are useful to screen for compounds targeting
CC APOE to treat a specific condition or disease associated with APOE
CC activity. The present DNA sequence is an allele specific oligonucleotide
CC (ASO) primer which is used for detecting human APOE gene polymorphisms.
XX
SQ Sequence 15 BP; 1 A; 5 C; 3 G; 5 T; 1 other;
Query Match      8.6%; Score 12; DB 1; Length 15;
Best Local Similarity 85.7%; Pred. No. 2e+02;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

XX 07-APR-2000; 2000DE-1019173.
 XX (EPIG-) EPIGENOMICS AG.
 XX Olek A, Piepenbrock C, Berlin K;
 XX WPI; 2001-657177/75.
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single nucleotide polymorphisms and cytosine
 PT methylation status -
 XX Claim 1; SEQ ID 200366; 29pp + Sequence Listing; German.
 XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation.
 CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 CC ABI00010-ABI82073 represent the oligomers described in the invention.
 CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.
 XX Sequence 13 BP; 2 A; 7 C; 0 G; 4 T; 0 other;
 XX Query Match 8.6%; Score 12; DB 1; Length 13;
 XX Best Local Similarity 100.0%; Pred. No. 1.6e+02;
 XX Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 1721 GGAGATGGAGAT 1732
 Db 13 GGAGATGGAGAT 2
 RESULT 146
 ABH47624
 ID ABH47624 standard; DNA; 13 BP.
 AC ABH47624;
 XX 22-FEB-2002 (first entry)
 DT Oligonucleotide SEQ ID NO 247601 for detecting SNP TSC0060506.
 DE SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX Homo sapiens.
 OS WO200177384-A2.
 PN 18-OCT-2001.
 PD 06-APR-2001; 2001WO-IB00713.
 PF (EPIG-) EPIGENOMICS AG.
 XX Olek A, Piepenbrock C, Berlin K;
 XX WPI; 2001-657177/75.
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single nucleotide polymorphisms and cytosine
 PT methylation status -
 XX Claim 1; SEQ ID 200366; 29pp + Sequence Listing; German.
 XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation.
 CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 CC ABI00010-ABI82073 represent the oligomers described in the invention.
 CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.
 XX Sequence 13 BP; 2 A; 7 C; 0 G; 4 T; 0 other;
 XX Query Match 8.6%; Score 12; DB 1; Length 13;
 XX Best Local Similarity 100.0%; Pred. No. 1.6e+02;
 XX Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 1721 GGAGATGGAGAT 1732
 Db 13 GGAGATGGAGAT 2
 RESULT 146
 ABH47624
 ID ABH47624 standard; DNA; 13 BP.
 AC ABH47624;
 XX 22-FEB-2002 (first entry)
 DT Oligonucleotide SEQ ID NO 247601 for detecting SNP TSC0060506.
 DE SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX Homo sapiens.
 OS WO200177384-A2.
 PN 18-OCT-2001.
 PD 06-APR-2001; 2001WO-IB00713.
 PF (EPIG-) EPIGENOMICS AG.
 XX Olek A, Piepenbrock C, Berlin K;
 XX WPI; 2001-657177/75.
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single nucleotide polymorphisms and cytosine
 PT methylation status -
 XX Claim 1; SEQ ID 200366; 29pp + Sequence Listing; German.
 XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation.
 CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 CC ABI00010-ABI82073 represent the oligomers described in the invention.
 CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.
 XX Sequence 13 BP; 2 A; 7 C; 0 G; 4 T; 0 other;
 XX Query Match 8.6%; Score 12; DB 1; Length 13;
 XX Best Local Similarity 100.0%; Pred. No. 1.6e+02;
 XX Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 1721 GGAGATGGAGAT 1732
 Db 13 GGAGATGGAGAT 2
 RESULT 146
 ABH47624
 ID ABH47624 standard; DNA; 13 BP.
 AC ABH47624;
 XX 22-FEB-2002 (first entry)
 DT Oligonucleotide SEQ ID NO 247601 for detecting SNP TSC0060506.
 DE SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX Homo sapiens.
 OS WO200177384-A2.
 PN 18-OCT-2001.
 PD 06-APR-2001; 2001WO-IB00713.
 PF (EPIG-) EPIGENOMICS AG.
 XX Olek A, Piepenbrock C, Berlin K;
 XX WPI; 2001-657177/75.
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single nucleotide polymorphisms and cytosine
 PT methylation status -
 XX Claim 1; SEQ ID 247601; 29pp + Sequence Listing; German.
 XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation.
 CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 CC ABI00010-ABI82073 represent the oligomers described in the invention.
 CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.
 XX Sequence 13 BP; 2 A; 0 C; 6 G; 5 T; 0 other;
 XX Query Match 8.6%; Score 12; DB 1; Length 13;
 XX Best Local Similarity 100.0%; Pred. No. 1.6e+02;
 XX Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 1705 GTTGGGTTAGGA 1716
 Db 2 GTTGGGTTAGGA 13
 RESULT 147
 ABH47625/C
 ID ABH47625 standard; DNA; 13 BP.
 AC ABH47625;
 XX 22-FEB-2002 (first entry)
 DT Oligonucleotide SEQ ID NO 247602 for detecting SNP TSC0060506.
 DE SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX Homo sapiens.
 OS WO200177384-A2.
 PN 18-OCT-2001.
 PD 06-APR-2001; 2001WO-IB00713.
 PF (EPIG-) EPIGENOMICS AG.
 XX Olek A, Piepenbrock C, Berlin K;
 XX WPI; 2001-657177/75.
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single nucleotide polymorphisms and cytosine
 PT methylation status -
 XX Claim 1; SEQ ID 247602; 29pp + Sequence Listing; German.
 XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation.
 CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 CC ABI00010-ABI82073 represent the oligomers described in the invention.
 CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.

QY 1702 GAAGTTGGGTTA 1713
 Db 1 GAAGTTGGGTTA 12
 RESULT 143
 ABF95705/c
 ID ABF95705 standard; DNA; 13 BP.
 XX AC ABF95705;
 XX DT 22-FEB-2002 (first entry)
 XX DE Oligonucleotide SEQ ID NO 195702 for detecting SNP TSC0009428.
 XX KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX OS Homo sapiens.
 XX PN WO200177384-A2.
 XX PD 18-OCT-2001.
 XX PF 06-APR-2001; 2001WO-IB00713.
 XX PR 07-APR-2000; 2000DE-1019173.
 XX PA (EPIG-) EPIGENOMICS AG.
 XX PI Olek A, Piepenbrock C, Berlin K;
 XX WPI; 2001-657177/75.
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single nucleotide polymorphisms and cytosine
 PT methylation status -
 XX Claim 1; SEQ ID 195702; 29pp + Sequence Listing; German.
 XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation.
 CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 CC ABI00010-ABI82073 represent the oligomers described in the invention.
 CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.
 XX SQ Sequence 13 BP; 4 A; 5 C; 0 G; 4 T; 0 other;
 XX Query Match 8.6%; Score 12; DB 1; Length 13;
 XX Best Local Similarity 100.0%; Pred. No. 1.6e+02;
 XX Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1702 GAAGTTGGGTTA 1713
 Db 13 GAAGTTGGGTTA 2
 RESULT 144
 ABH00388
 ID ABH00388 standard; DNA; 13 BP.
 XX AC ABH00388;
 XX DT 22-FEB-2002 (first entry)
 XX DE Oligonucleotide SEQ ID NO 200366 for detecting SNP TSC0049306.
 XX KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX OS Homo sapiens.
 XX PN WO200177384-A2.
 XX PD 18-OCT-2001.
 XX PF 06-APR-2001; 2001WO-IB00713.

DE Oligonucleotide SEQ ID NO 200365 for detecting SNP TSC0049306.
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX OS Homo sapiens.
 XX PN WO200177384-A2.
 XX PD 18-OCT-2001.
 XX PF 06-APR-2001; 2001WO-IB00713.
 XX PR 07-APR-2000; 2000DE-1019173.
 XX PA (EPIG-) EPIGENOMICS AG.
 XX PI Olek A, Piepenbrock C, Berlin K;
 XX WPI; 2001-657177/75.
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single nucleotide polymorphisms and cytosine
 PT methylation status -
 XX Claim 1; SEQ ID 200365; 29pp + Sequence Listing; German.
 XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation.
 CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 CC ABI00010-ABI82073 represent the oligomers described in the invention.
 CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.
 XX SQ Sequence 13 BP; 4 A; 0 C; 7 G; 2 T; 0 other;
 XX Query Match 8.6%; Score 12; DB 1; Length 13;
 XX Best Local Similarity 100.0%; Pred. No. 1.6e+02;
 XX Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1721 GGAGTGGGAGAT 1732
 Db 1 GGAGTGGGAGAT 12
 RESULT 145
 ABH00389/c
 ID ABH00389 standard; DNA; 13 BP.
 XX AC ABH00389;
 XX DT 22-FEB-2002 (first entry)
 XX DE Oligonucleotide SEQ ID NO 200366 for detecting SNP TSC0049306.
 XX KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX OS Homo sapiens.
 XX PN WO200177384-A2.
 XX PD 18-OCT-2001.
 XX PF 06-APR-2001; 2001WO-IB00713.

XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX
XX Claim 1; SEQ ID 124341; 29pp + Sequence Listing; German.
PS
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABT00010-ABT82073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 13 BP; 4 A; 0 C; 5 G; 4 T; 0 other;

Query Match 8.6%; Score 12; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1723 AGATGGAGATTG 1734
Db 1 AGATGGAGATTG 12
RESULT 141
ABF24345/C
ID ABF24345 standard; DNA; 13 BP.
XX
XX ABE24345;
AC
XX 21-FEB-2002 (first entry)
DT
XX Oligonucleotide SEQ ID NO 124342 for detecting SNP TSC0031088.
DE
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
OS
XX WO200177384-A2.
PN
XX 18-OCT-2001.
PD
XX 06-APR-2001; 2001WO-IB00713.
PF
XX 07-APR-2000; 2000DE-1019173.
PR
XX (EPIG-) EPIGENOMICS AG.
PA
XX Olek A, Piepenbrock C, Berlin K;
PI
XX WPI; 2001-657177/75.
DR
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX
XX Claim 1; SEQ ID 124342; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX ABT00010-ABT82073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 13 BP; 4 A; 0 C; 5 G; 4 T; 0 other;

CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABT00010-ABT82073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 13 BP; 4 A; 5 C; 0 G; 4 T; 0 other;

Query Match 8.6%; Score 12; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1723 AGATGGAGATTG 1734
Db 13 AGATGGAGATTG 2
RESULT 142
ABF95704
ID ABF95704 standard; DNA; 13 BP.
XX
XX ABE95704;
AC
XX 22-FEB-2002 (first entry)
DT
XX Oligonucleotide SEQ ID NO 195701 for detecting SNP TSC0009428.
DE
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
OS
XX WO200177384-A2.
PN
XX 18-OCT-2001.
PD
XX 06-APR-2001; 2001WO-IB00713.
PF
XX 07-APR-2000; 2000DE-1019173.
PR
XX (EPIG-) EPIGENOMICS AG.
PA
XX Olek A, Piepenbrock C, Berlin K;
PI
XX WPI; 2001-657177/75.
DR
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX
XX Claim 1; SEQ ID 195701; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX ABT00010-ABT82073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 13 BP; 4 A; 0 C; 5 G; 4 T; 0 other;

Query Match 8.6%; Score 12; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at ftp.wipo.int/pub/published_pct_sequences.

Sequence 13 BP; 2 A; 6 C; 0 G; 5 T; 0 other;

Query Match 8.6%; Score 12; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1721 GGAGATGGAGAT 1732

Db 12 GGAGATGGAGAT 1

RESULT 136

ABC63272
ID ABC63272 standard; DNA; 13 BP.

XX AC ABC63272;

DT 21-FEB-2002 (first entry)

DE Oligonucleotide SEQ ID NO 63289 for detecting SNP TSC0016721.

SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.

OS Homo sapiens.

PN WO200177384-A2.

PD 18-OCT-2001.

PF 06-APR-2001; 2001WO-IB00713.

PR 07-APR-2000; 2000DE-1019173.

XX PA (EPIG-) EPIGENOMICS AG.

PI Olek A, Piepenbrock C, Berlin K;

DR WPI; 2001-657177/75.

Set of oligonucleotides, useful for diagnosis and cell typing, is designed to detect single nucleotide polymorphisms and cytosine methylation status -

Claim 1; SEQ ID 63289; 29pp + Sequence Listing; German.

This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at ftp.wipo.int/pub/published_pct_sequences.

Sequence 13 BP; 2 A; 0 C; 6 G; 4 T; 1 other;

Query Match 8.6%; Score 12; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1697 TGGTGGAGATTG 1708

Db 1 TGGTGGAGATTG 12

RESULT 137

ABC63273/C
ID ABC63273 standard; DNA; 13 BP.

XX AC ABC63273;

DT 21-FEB-2002 (first entry)

DE Oligonucleotide SEQ ID NO 63290 for detecting SNP TSC0016721.

SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.

OS Homo sapiens.

PN WO200177384-A2.

PD 18-OCT-2001.

PF 06-APR-2001; 2001WO-IB00713.

PR 07-APR-2000; 2000DE-1019173.

XX PA (EPIG-) EPIGENOMICS AG.

PI Olek A, Piepenbrock C, Berlin K;

DR WPI; 2001-657177/75.

Set of oligonucleotides, useful for diagnosis and cell typing, is designed to detect single nucleotide polymorphisms and cytosine methylation status -

Claim 1; SEQ ID 63290; 29pp + Sequence Listing; German.

This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at ftp.wipo.int/pub/published_pct_sequences.

Sequence 13 BP; 4 A; 6 C; 0 G; 2 T; 1 other;

Query Match 8.6%; Score 12; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1697 TGGTGGAGATTG 1708

Db 13 TGGTGGAGATTG 2

RESULT 138

ABC84320

ID ABC84320 standard; DNA; 13 BP.

CC treatment of arteriosclerosis. Sequences AAI66655-91 represent PCR
 CC primers related to the human CETP DNA, used during the course of the
 CC invention.

XX Sequence 21 BP; 5 A; 6 C; 6 G; 4 T; 0 other;
 SQ
 Query Match 8.6%; Score 12.2; DB 1; Length 21;
 Best Local Similarity 82.4%; Pred. No. 3.2e+02;
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1657 CACCAGGCTCAGCTG 1673
 ||||| |
 Db 2 CACCAGGCTCAGCTG 18

RESULT 131
 ABH80452
 ID ABH80452 standard; DNA; 12 BP.
 XX
 AC ABH80452;
 XX
 DT 22-FEB-2002 (first entry)
 XX
 DE Oligonucleotide primer SEQ ID NO 280445 for detecting SNP TSC0008642.
 XX
 KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX
 OS Homo sapiens.
 XX
 PN WO200177384-A2.
 XX
 PD 18-OCT-2001.
 XX
 PF 06-APR-2001; 2001WO-IB00713.
 XX
 PR 07-APR-2000; 2000DE-1019173.
 XX
 PA (EPG-) EPIGENOMICS AG.
 XX
 PI Olek A, Piepenbrock C, Berlin K;
 XX
 DR WPI; 2001-657177/75.
 XX
 OS Set of oligonucleotides, useful for diagnosis and cell typing, is
 XX designed to detect single nucleotide polymorphisms and cytosine
 XX methylation status -
 XX
 PS Claim 1; SEQ ID 280445; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation.
 CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 CC ABI00010-ABI82073 represent the oligomers described in the invention.
 CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.
 XX
 PS Claim 1; SEQ ID 280445; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation.
 CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 CC ABI00010-ABI82073 represent the oligomers described in the invention.
 CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.

XX Sequence 12 BP; 3 A; 0 C; 5 G; 4 T; 0 other;
 SQ
 Query Match 8.6%; Score 12; DB 1; Length 12;
 Best Local Similarity 100.0%; Pred. No. 1.4e+02;
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1703 AAGTTGGGTTAG 1714
 ||||| |
 Db 1 AAGTTGGGTTAG 12

RESULT 132
 ABH93471/C
 ID ABH93471 standard; DNA; 12 BP.
 XX
 AC ABH93471;
 XX
 DT 22-FEB-2002 (first entry)
 XX
 DE Oligonucleotide primer SEQ ID NO 293464 for detecting SNP TSC0015629.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX
 OS Homo sapiens.
 XX
 PN WO200177384-A2.
 XX
 PD 18-OCT-2001.
 XX
 PF 06-APR-2001; 2001WO-IB00713.
 XX
 PR 07-APR-2000; 2000DE-1019173.
 XX
 PA (EPG-) EPIGENOMICS AG.
 XX
 PI Olek A, Piepenbrock C, Berlin K;
 XX
 DR WPI; 2001-657177/75.

XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single nucleotide polymorphisms and cytosine
 PT methylation status -
 XX
 PS Claim 1; SEQ ID 293464; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation.
 CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 CC ABI00010-ABI82073 represent the oligomers described in the invention.
 CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.

XX Sequence 12 BP; 3 A; 5 C; 1 G; 3 T; 0 other;
 SQ
 Query Match 8.6%; Score 12; DB 1; Length 12;
 Best Local Similarity 100.0%; Pred. No. 1.4e+02;
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1711 TTAGGAGTACGG 1722
 ||||| |
 Db 12 TTAGGAGTACGG 1

RESULT 133
 ABI12177/C
 ID ABI12177 standard; DNA; 12 BP.
 XX
 AC ABI12177;
 XX
 DT 22-FEB-2002 (first entry)
 XX
 DE Oligonucleotide primer SEQ ID NO 312150 for detecting SNP TSC0024874.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW

PD 05-DEC-2002.
 XX 29-MAY-2002; 2002WO-US16840.
 XX 29-MAY-2001; 2001US-294140P.
 PR 06-JUN-2001; 2001US-296249P.
 PR 10-SEP-2001; 2001US-318471P.
 XX (RIBO-) RIBOZYME PHARM INC.
 PA Mcswiggen J;
 XX WPI; 2003-140484/13.
 DR Novel short interfering RNA and enzymatic nucleic acid useful for
 XX treating cancer, modulates the expression of a nucleic acid encoding
 PT HER2, K-Ras, H-Ras, N-Ras, and human deficiency virus sequences -
 PT Claim 4; Page 142; 185pp; English.
 PS The invention relates to a novel short interfering RNA (siRNA) nucleic
 XX acid molecule or an enzymatic nucleic acid molecule, that modulates
 CC expression of a nucleic acid molecule encoding HER2, K-Ras, H-Ras, N-Ras,
 CC human immunodeficiency virus (HIV) or a component of HIV. The nucleic
 CC acid molecule of the invention has cytostatic, anti-HIV, and
 CC anti-rheumatic activity. The nucleic acid molecules are useful for
 CC reducing HER2, K-Ras, H-Ras, and HIV activity in a cell. The nucleic
 CC acids are also useful for treating breast, ovarian, colorectal, lung,
 CC prostate, bladder, or pancreatic cancer, and HIV infection, and AIDS.
 CC The sequences shown in ABZ59889 - ABZ62216, ABZ64544 - ABZ65531,
 CC ABZ66520 - ABZ66524, ABZ66530 - ABZ66585 represent substrate/target
 CC sequences for the human ribozymes of the invention.
 XX Sequence 17 BP; 3 A; 9 C; 1 G; 4 U; 0 other;
 SQ Query Match 8.8%; Score 12.2; DB 1; Length 17;
 Best Local Similarity 64.7%; Pred. No. 2.3e-02;
 Matches 11; Conservative 3; Mismatches 3; Indels 0; Gaps 0;
 QY 1749 CCTATCCTAAAGGCCCA 1765
 DE 1 CCUCUCCUACAGGCCCA 17
 RESULT 129
 AAA92642/C
 ID AAA92642 standard; DNA; 18 BP.
 AC AAA92642;
 XX 04-JAN-2001 (first entry)
 DT Antisense oligonucleotide ISIS# 30365.
 XX Human; SRA; steroid receptor RNA activator; cytostatic; antiinflammatory;
 KW SRA inhibitor; cancer; infection; antisense oligonucleotide; ss.
 XX Synthetic.
 OS US6107092-A.
 XX 22-AUG-2000.
 XX 29-MAR-1999; 99US-0280409.
 XX 29-MAR-1999; 99US-0280409.
 XX (ISIS-) ISIS PHARM INC.
 PA (BAYU) BAYLOR COLLEGE MEDICINE.
 XX Cowser LM, Bennett CF, O'Malley BW;
 XX WPI; 2000-586211/55.
 DR

XX Antisense compounds targeted to steroid receptor RNA activator useful
 PT for diagnosis, prophylaxis and treatment of diseases associated with
 PT the steroid activator, such as infection, inflammation or tumor
 PT formation -
 XX Claim 3; Column 42; 47pp; English.
 PS The present sequence is one of a large number of antisense
 XX oligonucleotides which is directed against one of four human steroid
 CC receptor RNA activator (SRA) nucleic acid sequences. Two series of
 CC antisense oligonucleotides were synthesized. The first series comprised
 CC 8-30 oligodeoxynucleotides with a phosphorothioate backbone. The second
 CC series comprised chimeric oligonucleotides composed of a central gap
 CC region, consisting of ten 2'-deoxynucleotides, which was flanked on both
 CC sides by four-nucleotide wings. The wings were composed of
 CC 2'-methoxyethyl (2'-MOE) nucleotides. Both series contained the same
 CC nucleotide sequences. The antisense compounds are useful for research,
 CC diagnosis, treatment and prophylaxis to prevent or delay infection,
 CC inflammation or tumour formation. Therapeutically the oligonucleotides
 CC are highly safe and are effectively administered to humans.
 XX Sequence 18 BP; 3 A; 5 C; 6 G; 4 T; 0 other;
 SQ Query Match 8.8%; Score 12.2; DB 1; Length 18;
 Best Local Similarity 82.4%; Pred. No. 2.5e+02;
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 QY 1658 ACCAGGCTCACAGTGG 1674
 DE 17 ACCAGGCTTCCAGCAGG 1
 RESULT 130
 AA166686
 ID AA166686 standard; DNA; 21 BP.
 AC AA166686;
 XX 07-JAN-2002 (first entry)
 DT Human CETP DNA related PCR primer.
 XX CETP; arteriosclerosis; cholesterol ester transfer protein; HDL;
 KW high density lipoprotein; human; PCR primer; ss.
 XX Homo sapiens.
 OS WO200171032-A1.
 XX 27-SEP-2001.
 XX 23-MAR-2001; 2001WO-JP02327.
 XX 24-MAR-2000; 2000JP-0084264.
 XX (BNLB-) BML INC.
 XX Nagano M, Ito M, Sagehashi Y, Hattori H, Egashira T, Yamashita S;
 PI Matsuzawa Y;
 XX WPI; 2001-611516/70.
 XX Determining a risk factor for arteriosclerosis comprises detecting
 PT mutations in genes for cholesterol ester transfer protein.
 XX Disclosure; Page 21; 58pp; Japanese.
 XX The invention relates to detecting the risk factor for arteriosclerosis
 CC in a subject that involves detecting mutations in the gene for
 CC cholesterol ester transfer protein (CETP) related to the degree of risk
 CC of arteriosclerosis. The mutant proteins alter the level of HDL in the
 CC blood. The high frequency mutations can be detected for prevention and

Query Match 8.8%; Score 12.2; DB 1; Length 17;
 Best Local Similarity 82.4%; Pred. No. 2.3e+02;
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1735 GTCCCAACTGCTCCT 1751
 1 GATCCCAACTGCTCCT 17

Db
 ID ACA07738 standard; RNA; 17 BP.

XX
 AC ACA07738;

XX
 03-JUN-2003 (first entry)

DE
 NFKB sub-unit modulating zinzyme substrate #137.

XX
 Enzymatic nucleic acid; nuclear factor kappa B; NFKB; inozyme; zinzyme;
 G-cleaver; amberyne; cancer; REL-A activity; breast cancer; human;
 lung cancer; prostate cancer; colorectal cancer; brain cancer;
 oesophageal cancer; stomach cancer; bladder cancer; pancreatic cancer;
 cervical cancer; head and neck cancer; ovarian cancer; melanoma;
 lymphoma; glioma; multidrug resistant cancer; REL-A-specific inhibitor;
 chemotherap; paclitaxel; docetaxel; cisplatin; methotrexate;
 cyclophosphamide; doxorubin; fluorouracil carboplatin; edatrexate;
 gemcitabine; radiation therapy; inflammatory disease; asthma; diabetes;
 rheumatoid arthritis; restenosis; Crohn's disease; obesity; ischaemia;
 gene therapy; autoimmune disease; lupus; multiple sclerosis; sepsis;
 transplant/graft rejection; reperfusion injury; glomerulonephritis;
 allergic airway inflammation; inflammatory bowel disease; infection;
 ss.

XX
 Homo sapiens.

OS
 US2002177568-A1.

PN
 28-NOV-2002.

PD
 23-MAY-2001; 2001US-0864785.

PF
 15-AUG-1994; 94US-0291932.

PR
 07-DEC-1992; 92US-0987132.

PR
 18-MAY-1994; 94US-0245466.

PR
 23-DEC-1996; 96US-0777916.

XX
 (STIN/) STINCHOMB D T.
 (MCSW/) MCSWIGGEN J.
 (DRAP/) DRAPER K G.

PI
 Stinchcomb DT, Mcswiggen J, Draper KG;

DR
 WPI; 2003-340953/32.

PT
 Novel enzymatic nucleic acid molecules which down regulates expression
 of a sequence encoding a subunit of nuclear factor kappa B useful for
 treating cancer, inflammatory disorders and autoimmune diseases -

PS
 Claim 3; Page 39; 72pp; English.

CC
 The invention describes an enzymatic nucleic acid molecule (I) which down
 regulates expression of a sequence encoding a subunit of nuclear factor
 kappa B (NFKB), where (I) is an inozyme, zinzyme, G-cleaver or amberyne
 configuration. The enzymatic nucleic acid molecule is adapted to treat
 cancer and is useful for down-regulating REL-A activity in a cell, for
 treating a patient having a condition associated with the level of REL-A.
 (I) is useful for cleaving RNA comprising a sequence of REL-A gene, in
 the presence of a divalent cation, especially Mg²⁺. The enzymatic and
 antisense nucleic acid molecules are useful for treating breast, lung,
 prostate, colorectal, brain, oesophageal, stomach, bladder, pancreatic,
 cervical, head and neck, ovarian cancer, melanoma, lymphoma, glioma or

CC
 multidrug resistant cancer. The method involves use of other drug
 therapies such as monoclonal antibodies, REL-A-specific inhibitors or
 chemotherapy including paclitaxel, docetaxel, cisplatin, methotrexate,
 cyclophosphamide, doxorubin, fluorouracil carboplatin, edatrexate,
 gemcitabine or radiation therapy. The enzymatic and antisense nucleic
 acid molecules are also useful for treating inflammatory disease such as
 rheumatoid arthritis, restenosis, asthma, Crohn's disease, diabetes,
 obesity, autoimmune disease, lupus, multiple sclerosis, transplant/graft
 rejection, gene therapy applications, ischaemia/reperfusion injury
 (central nervous system (CNS) and myocardial), glomerulonephritis,
 sepsis, allergic airway inflammation, inflammatory bowel disease or
 infection. This sequence represents the substrate of a novel
 enzymatic nucleic acid molecule.

XX
 SQ Sequence 17 BP; 2 A; 5 C; 3 G; 7 U; 0 other;

Query Match 8.8%; Score 12.2; DB 1; Length 17;
 Best Local Similarity 52.9%; Pred. No. 2.3e+02;
 Matches 9; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

QY 1676 ACCCTGGTCTCTCTCC 1692
 1 ACCAUGGUGUUCUUC 17

Db
 ID ACA09102/c

XX
 AC ACA09102;

XX
 03-JUN-2003 (first entry)

DE
 NFKB sub-unit modulating amberyne substrate #265.

XX
 Enzymatic nucleic acid; nuclear factor kappa B; NFKB; inozyme; zinzyme;
 G-cleaver; amberyne; cancer; REL-A activity; breast cancer; human;
 lung cancer; prostate cancer; colorectal cancer; brain cancer;
 oesophageal cancer; stomach cancer; bladder cancer; pancreatic cancer;
 cervical cancer; head and neck cancer; ovarian cancer; melanoma;
 lymphoma; glioma; multidrug resistant cancer; REL-A-specific inhibitor;
 chemotherap; paclitaxel; docetaxel; cisplatin; methotrexate;
 cyclophosphamide; doxorubin; fluorouracil carboplatin; edatrexate;
 gemcitabine; radiation therapy; inflammatory disease; asthma; diabetes;
 rheumatoid arthritis; restenosis; Crohn's disease; obesity; ischaemia;
 gene therapy; autoimmune disease; lupus; multiple sclerosis; sepsis;
 transplant/graft rejection; reperfusion injury; glomerulonephritis;
 allergic airway inflammation; inflammatory bowel disease; infection;
 ss.

XX
 Homo sapiens.

OS
 US2002177568-A1.

PN
 28-NOV-2002.

PD
 23-MAY-2001; 2001US-0864785.

PF
 15-AUG-1994; 94US-0291932.

PR
 07-DEC-1992; 92US-0987132.

PR
 18-MAY-1994; 94US-0245466.

PR
 23-DEC-1996; 96US-0777916.

XX
 (STIN/) STINCHOMB D T.
 (MCSW/) MCSWIGGEN J.
 (DRAP/) DRAPER K G.

PI
 Stinchcomb DT, Mcswiggen J, Draper KG;

DR
 WPI; 2003-340953/32.

PT
 Novel enzymatic nucleic acid molecules which down regulates expression
 of a sequence encoding a subunit of nuclear factor kappa B useful for
 treating cancer, inflammatory disorders and autoimmune diseases -

PS
 Claim 3; Page 39; 72pp; English.

CC
 The invention describes an enzymatic nucleic acid molecule (I) which down
 regulates expression of a sequence encoding a subunit of nuclear factor
 kappa B (NFKB), where (I) is an inozyme, zinzyme, G-cleaver or amberyne
 configuration. The enzymatic nucleic acid molecule is adapted to treat
 cancer and is useful for down-regulating REL-A activity in a cell, for
 treating a patient having a condition associated with the level of REL-A.
 (I) is useful for cleaving RNA comprising a sequence of REL-A gene, in
 the presence of a divalent cation, especially Mg²⁺. The enzymatic and
 antisense nucleic acid molecules are useful for treating breast, lung,
 prostate, colorectal, brain, oesophageal, stomach, bladder, pancreatic,
 cervical, head and neck, ovarian cancer, melanoma, lymphoma, glioma or

CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequence.
XX
SQ Sequence 17 BP; 4 A; 4 C; 8 G; 1 T; 0 other;
Query Match 8.8%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 2.3e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 1672 TGGAAACCTGGTGCTC 1698
|||||
DB 17 TGGACCCCTGGCCCTC 1

RESULT 123
ABT34389/C
ID ABT34389 standard; DNA; 17 BP.
XX AC
XX ABT34389;
XX AC
XX DT 12-JUN-2003 (first entry)
XX
DE Tumour suppression related human fukutin oligo SEQ ID No 26.
XX
KW Cytostatic; virucide; neuroprotective; nootropic; neuroleptic; gene chip;
KW antisense; sense; tumour; cell degeneration; cancer; Alzheimer's disease;
KW schizophrenia; protein chip; gene therapy; tumour suppression;
KW human fukutin; ds.
XX
OS Homo sapiens.
XX WO2003025175-A2.
XX
XX 27-MAR-2003.
XX PD
XX PF 17-SEP-2002; 2002WO-IB04208.
XX PR 17-SEP-2001; 2001FR-0011978.
XX PA (MOLE-) MOLECULAR ENGINES LAB.
XX
XX Telerman A, Amson R, Tuijnder M;
XX WPI; 2003-313353/30.
XX
XX New isolated nucleic acid, useful for treating viral diseases
PT associated with tumors and cell degeneration, also related
PT polypeptides, antibodies and transfected cells -
XX
XX Disclosure; Page 37; 720pp; French.

CC The invention relates to a novel isolated 17 mer nucleic acid sequence,
CC given in the specification, a sequence containing at least 15
CC consecutive nucleotides from the 17 mer sequence, a sequence with, after
CC optimal alignment, at least 80 % identity to the 17 mer sequence, a
CC sequence that hybridizes to them under highly stringent conditions, or
CC the complement of any of them, or the corresponding RNA. The novel
CC isolated nucleic acids of the invention are useful as probes and primers
CC for detecting, identifying, quantifying and/or amplifying a nucleic acid,
CC e.g. as one component of a gene chip, in vitro as (anti)sense reagents,
CC and for production of recombinant polypeptides. Any of the nucleic acids,
CC polypeptides, vectors containing the nucleic acids, cells containing the
CC vector or antibodies directed against the polypeptides are useful for
CC preparation of pharmaceuticals for prevention and/or treatment of viral
CC diseases that are characterised by development of tumours or cell
CC degeneration, specifically cancer but also Alzheimer's disease and
CC schizophrenia. Analysis of the expression of the 17 mer nucleic acids in
CC patient samples is useful for diagnosis and/or prognosis of these
CC diseases. The polypeptides can also be used to generate antibodies, and
CC both the polypeptide and antibodies are useful as components of protein
CC chips. The nucleic acid sequences of the invention can be used in gene
CC therapy. This polynucleotide sequence represents a tumour suppression
CC related human fukutin oligonucleotide of the invention.

XX SQ Sequence 17 BP; 4 A; 6 C; 3 G; 4 T; 0 other;
Query Match 8.8%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 2.3e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 1641 TGTAGCAGAGGCAAGC 1657
|||||
DB 17 TGTAGCAGATGGCGATC 1

RESULT 124
ABT40165
ID ABT40165 standard; DNA; 17 BP.
XX AC
XX ABT40165;
XX AC
XX DT 13-JUN-2003 (first entry)
XX
DE Tumour suppression related human fukutin oligo SEQ ID No 5802.
XX
KW Cytostatic; virucide; neuroprotective; nootropic; neuroleptic; gene chip;
KW antisense; sense; tumour; cell degeneration; cancer; Alzheimer's disease;
KW schizophrenia; protein chip; gene therapy; tumour suppression;
KW human fukutin; ds.
XX
OS Homo sapiens.
XX WO2003025175-A2.
XX
XX 27-MAR-2003.
XX PD
XX PF 17-SEP-2002; 2002WO-IB04208.
XX PR 17-SEP-2001; 2001FR-0011978.
XX PA (MOLE-) MOLECULAR ENGINES LAB.
XX
XX Telerman A, Amson R, Tuijnder M;
XX WPI; 2003-313353/30.
XX
XX New isolated nucleic acid, useful for treating viral diseases
PT associated with tumors and cell degeneration, also related
PT polypeptides, antibodies and transfected cells -
XX
XX Disclosure; Page 712; 720pp; French.

CC The invention relates to a novel isolated 17 mer nucleic acid sequence,
CC given in the specification, a sequence containing at least 15
CC consecutive nucleotides from the 17 mer sequence, a sequence with, after
CC optimal alignment, at least 80 % identity to the 17 mer sequence, a
CC sequence that hybridizes to them under highly stringent conditions, or
CC the complement of any of them, or the corresponding RNA. The novel
CC isolated nucleic acids of the invention are useful as probes and primers
CC for detecting, identifying, quantifying and/or amplifying a nucleic acid,
CC e.g. as one component of a gene chip, in vitro as (anti)sense reagents,
CC and for production of recombinant polypeptides. Any of the nucleic acids,
CC polypeptides, vectors containing the nucleic acids, cells containing the
CC vector or antibodies directed against the polypeptides are useful for
CC preparation of pharmaceuticals for prevention and/or treatment of viral
CC diseases that are characterised by development of tumours or cell
CC degeneration, specifically cancer but also Alzheimer's disease and
CC schizophrenia. Analysis of the expression of the 17 mer nucleic acids in
CC patient samples is useful for diagnosis and/or prognosis of these
CC diseases. The polypeptides can also be used to generate antibodies, and
CC both the polypeptide and antibodies are useful as components of protein
CC chips. The nucleic acid sequences of the invention can be used in gene
CC therapy. This polynucleotide sequence represents a tumour suppression
CC related human fukutin oligonucleotide of the invention.

XX SQ Sequence 17 BP; 3 A; 7 C; 2 G; 5 T; 0 other;

skkeletal muscle disorder; amplicon; screening; ss.

Homo sapiens.

WO200192524-A2.

06-DEC-2001.

25-MAY-2001; 2001WO-US16981.

26-MAY-2000; 2000US-207456P.

21-SEP-2000; 2000US-234687P.

27-SEP-2000; 2000US-236359P.

04-OCT-2000; 2000GB-0024263.

30-JAN-2001; 2001WO-US00661.

30-JAN-2001; 2001WO-US00662.

30-JAN-2001; 2001WO-US00663.

30-JAN-2001; 2001WO-US00664.

30-JAN-2001; 2001WO-US00665.

30-JAN-2001; 2001WO-US00666.

30-JAN-2001; 2001WO-US00667.

30-JAN-2001; 2001WO-US00668.

30-JAN-2001; 2001WO-US00669.

05-FEB-2001; 2001WO-US00670.

05-FEB-2001; 2001US-266860P.

(AEOM-) AECOMICA INC.

Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;

WPI; 2002-179446/23.

New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins, or as specific biomolecule capture probes for surface-enhanced laser desorption/ionization, comprises human myosin-like protein hGDMPLP-1 -

Disclosure; SEQ ID 7831; 214pp; English.

The present invention describes a human genome-derived myosin-like protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-1 can be used in gene therapy and vaccine production. The hGDMPLP-1 nucleic acids can be used as probes to detect, characterise and quantify hGDMPLP-1 nucleic acids in samples, as amplification substrates, to provide initial substrates for the recombinant engineering of hGDMPLP-1 protein variants having desired phenotypic improvements, and for expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be used as immunogens to raise antibodies that specifically recognise hGDMPLP-1 proteins, as standards in assays used to determine the concentration and/or amount specifically of hGDMPLP proteins, as specific biomolecule capture probes for surface-enhanced laser desorption/ionisation, as therapeutic supplement in patients having specific deficiency in hGDMPLP-1 production, and in vaccines or for replacement therapy. The polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a disorder associated with the expression of hGDMPLP-1, in particular heart and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22. The present sequence represents an oligomer used in the screening of the hGDMPLP-1 sequence in the exemplification of the present invention.

N.B. The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequence.

Sequence 17 BP; 5 A; 6 C; 4 G; 2 T; 0 other;

Query Match 8.8%; Score 12.2; DB 1; Length 17;

Best Local Similarity 82.4%; Pred.No. 2.3e+02;

Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

1661 AGGCTACAGCTGAAC 1677

1 AGGCTACAGCTGAAGC 17

1.rng

Mon Jan 12 13:57:51 2004

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PA (AEOM-) AEOMICA INC.
XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;
PI WPI; 2002-179446/23.
XX New polypeptide, for raising antibodies that recognize hGDMPLP-1
PT proteins, or as specific biomolecule capture probes for
PT surface-enhanced laser desorption/ionization, comprises human
PT myosin-like protein hGDMPLP-1 -
XX Disclosure; SEQ ID 528; 214pp; English.
XX The present invention describes a human genome-derived myosin-like
XX protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of
XX hGDMPLP-1 can be used in gene therapy and vaccine production. The
XX hGDMPLP-1 nucleic acids can be used as probes to detect, characterise
XX and quantify hGDMPLP-1 nucleic acids in samples, as amplification
XX substrates, to provide initial substrates for the recombinant engineering
XX of hGDMPLP-1 protein variants having desired phenotypic improvements, and
XX for expressing the proteins. The hGDMPLP-1 proteins or polypeptides may
XX be used as immunogens to raise antibodies that specifically recognise
XX hGDMPLP-1 proteins, as standards in assays used to determine the
XX concentration and/or amount specifically of hGDMPLP proteins, as specific
XX biomolecule capture probes for surface-enhanced laser desorption
XX ionisation, as therapeutic supplement in patients having specific
XX deficiency in hGDMPLP-1 production, and in vaccines or for replacement
XX therapy. The polynucleotide sequences encoding hGDMPLP-1 may be used for
XX diagnosing a disorder associated with the expression of hGDMPLP-1, in
XX particular heart and skeletal muscle disorders. hGDMPLP-1 is localised to
XX chromosome 22. The present sequence represents an oligomer used in the
XX screening of the hGDMPLP-1 sequence in the exemplification of the present
XX invention.
XX N.B. The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format directly from WIPO
XX at ftp.wipo.int/pub/published_pct_sequence.
XX Sequence 17 BP; 7 A; 4 C; 4 G; 2 T; 0 other;
XX
XX Query Match 8.8%; Score 12.2; DB 1; Length 17;
XX Best Local Similarity 82.4%; Pred. No. 2.3e+02;
XX Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
XX
XX QY 1645 GCAGAGGCGCAAGCACCA 1661
XX Db 1 GCAGATGACAGCATCA 17
XX
XX RESULT 120
XX ABN01272/c
XX ID ABN01272 standard; DNA; 17 BP.
XX AC ABN01272;
XX XX
XX DT 29-MAY-2002 (first entry)
XX XX
XX DE Human GDMPLP-1 17-mer scanning SEQ ID NO:4 sequence SEQ ID NO:1264.
XX XX
XX KW Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;
XX KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;
XX KW skeletal muscle disorder; amplicon; screening; ss.
XX OS Homo sapiens.
XX XX
XX PN WO200192524-A2.
XX XX
XX PD 06-DEC-2001.
XX XX
XX PF 25-MAY-2001; 2001WO-US16981.
XX XX
XX PR 26-MAY-2000; 2000US-207456P.
XX PR 21-SEP-2000; 2000US-234687P.
XX PR 27-SEP-2000; 2000US-236359P.
XX PR

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PR 04-OCT-2000; 2000GB-0024263.
PR 30-JAN-2001; 2001WO-US00661.
PR 30-JAN-2001; 2001WO-US00662.
PR 30-JAN-2001; 2001WO-US00663.
PR 30-JAN-2001; 2001WO-US00664.
PR 30-JAN-2001; 2001WO-US00665.
PR 30-JAN-2001; 2001WO-US00666.
PR 30-JAN-2001; 2001WO-US00667.
PR 30-JAN-2001; 2001WO-US00668.
PR 30-JAN-2001; 2001WO-US00669.
PR 30-JAN-2001; 2001WO-US00670.
PR 05-FEB-2001; 2001US-266860P.
XX (AEOM-) AEOMICA INC.
XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;
XX WPI; 2002-179446/23.
XX New polypeptide, for raising antibodies that recognize hGDMPLP-1
XX proteins, or as specific biomolecule capture probes for
XX surface-enhanced laser desorption/ionization, comprises human
XX myosin-like protein hGDMPLP-1 -
XX Disclosure; SEQ ID 1264; 214pp; English.
XX The present invention describes a human genome-derived myosin-like
XX protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of
XX hGDMPLP-1 can be used in gene therapy and vaccine production. The
XX hGDMPLP-1 nucleic acids can be used as probes to detect, characterise
XX and quantify hGDMPLP-1 nucleic acids in samples, as amplification
XX substrates, to provide initial substrates for the recombinant engineering
XX of hGDMPLP-1 protein variants having desired phenotypic improvements, and
XX for expressing the proteins. The hGDMPLP-1 proteins or polypeptides may
XX be used as immunogens to raise antibodies that specifically recognise
XX hGDMPLP-1 proteins, as standards in assays used to determine the
XX concentration and/or amount specifically of hGDMPLP proteins, as specific
XX biomolecule capture probes for surface-enhanced laser desorption
XX ionisation, as therapeutic supplement in patients having specific
XX deficiency in hGDMPLP-1 production, and in vaccines or for replacement
XX therapy. The polynucleotide sequences encoding hGDMPLP-1 may be used for
XX diagnosing a disorder associated with the expression of hGDMPLP-1, in
XX particular heart and skeletal muscle disorders. hGDMPLP-1 is localised to
XX chromosome 22. The present sequence represents an oligomer used in the
XX screening of the hGDMPLP-1 sequence in the exemplification of the present
XX invention.
XX N.B. The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format directly from WIPO
XX at ftp.wipo.int/pub/published_pct_sequence.
XX Sequence 17 BP; 3 A; 2 C; 8 G; 4 T; 0 other;
XX
XX Query Match 8.8%; Score 12.2; DB 1; Length 17;
XX Best Local Similarity 82.4%; Pred. No. 2.3e+02;
XX Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
XX
XX QY 1729 AGATTGGCTCCCACTC 1745
XX Db 17 AGATCGTCCCACTC 1
XX
XX RESULT 121
XX ABN07839
XX ID ABN07839 standard; DNA; 17 BP.
XX AC ABN07839;
XX XX
XX DT 29-MAY-2002 (first entry)
XX XX
XX DE Human GDMPLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:7831.
XX XX
XX KW Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;
XX KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;
XX KW

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XX PS Example 1; Page 22; 131pp; English.
XX CC
XX CC The invention describes a cytochrome P450 protein (I) in which CYP3A43
XX CC exon 1 is joined to sets of CYP3A4 or CYP3A5 exons, as well as sub
XX CC fragments, variants and multiples of (I) having essentially the same
XX CC characteristics. (I) is useful as a medicament, and for evaluating drug
XX CC metabolism, in drug design, and drug screening, and in tests for
XX CC adjusting the dose of drugs. This sequence represents a primer used
XX CC to isolate DNA encoding the novel cytochrome P450 of the invention.
XX SQ Sequence 17 BP; 3 A; 6 C; 4 G; 4 T; 0 other;
XX
XX Query Match 8.8%; Score 12.2; DB 1; Length 17;
XX Best Local Similarity 82.4%; Pred. No. 2.3e+02;
XX Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
XX
Qy 1673 GGAAACCTGGTCTCC 1689
Db ||||| ||||| |||||
1 GGAAACCTGGTCTCTCC 17

RESULT 118
ABN00535
ID ABN00535 standard; DNA; 17 BP.
XX AC ABN00535;
XX
XX 29-MAY-2002 (first entry)
XX
XX Human GDMPLP-1 17-mer scanning SEQ ID NO:4 sequence SEQ ID NO:527.
XX
XX Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;
XX KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;
XX KW skeletal muscle disorder; amplicon; screening; ss.
XX OS Homo sapiens.
XX
XX WO200192524-A2.
XX
XX 06-DEC-2001.
XX
XX 25-MAY-2001; 2001WO-US16981.
XX
XX 26-MAY-2000; 2000US-207456P.
XX 21-SEP-2000; 2000US-234687P.
XX 27-SEP-2000; 2000US-236359P.
XX 04-OCT-2000; 2000GB-0024263.
XX 30-JAN-2001; 2001WO-US00661.
XX 30-JAN-2001; 2001WO-US00662.
XX 30-JAN-2001; 2001WO-US00663.
XX 30-JAN-2001; 2001WO-US00664.
XX 30-JAN-2001; 2001WO-US00665.
XX 30-JAN-2001; 2001WO-US00666.
XX 30-JAN-2001; 2001WO-US00667.
XX 30-JAN-2001; 2001WO-US00668.
XX 30-JAN-2001; 2001WO-US00669.
XX 30-JAN-2001; 2001WO-US00670.
XX 05-FEB-2001; 2001US-266860P.
XX
XX (ABOM-) ABOMICA INC.
XX
XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;
XX WPI; 2002-179446/23.
XX
XX New polypeptide, for raising antibodies that recognize hGDMPLP-1
XX PT proteins, or as specific biomolecule capture probes for
XX PT surface-enhanced laser desorption/ionization, comprises human
XX PT myosin-like protein hGDMPLP-1 -
XX
XX Disclosure; SEQ ID 527; 214pp; English.
XX PS
```

```
CC The present invention describes a human genome-derived myosin-like
CC protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of
CC hGDMPLP-1 can be used in gene therapy and vaccine production. The
CC hGDMPLP-1 nucleic acids can be used as probes to detect, characterise
CC and quantify hGDMPLP-1 nucleic acids in samples, as amplification
CC substrates, to provide initial substrates for the recombinant engineering
CC of hGDMPLP-1 protein variants having desired phenotypic improvements, and
CC for expressing the proteins. The hGDMPLP-1 proteins or polypeptides may
CC be used as immunogens to raise antibodies that specifically recognise
CC hGDMPLP-1 proteins, as standards in assays used to determine the
CC concentration and/or amount specifically of hGDMPLP proteins, as specific
CC biomolecule capture probes for surface-enhanced laser desorption
CC ionisation, as therapeutic supplement in patients having specific
CC deficiency in hGDMPLP-1 production, and in vaccines or for replacement
CC therapy. The polynucleotide sequences encoding hGDMPLP-1 may be used for
CC diagnosing a disorder associated with the expression of hGDMPLP-1, in
CC particular heart and skeletal muscle disorders. hGDMPLP-1 is localised to
CC chromosome 22. The present sequence represents an oligomer used in the
CC screening of the hGDMPLP-1 sequence in the exemplification of the present
CC invention.
CC N.B. The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequence.
XX
XX Sequence 17 BP; 7 A; 4 C; 4 G; 2 T; 0 other;
XX
XX Query Match 8.8%; Score 12.2; DB 1; Length 17;
XX Best Local Similarity 82.4%; Pred. No. 2.3e+02;
XX Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
XX
Qy 1644 AGCAGAGGCAAGCACC 1660
Db ||||| ||||| |||||
1 AGCAGATGACAAGCATC 17

RESULT 119
ABN00536
ID ABN00536 standard; DNA; 17 BP.
XX AC ABN00536;
XX
XX 29-MAY-2002 (first entry)
XX
XX Human GDMPLP-1 17-mer scanning SEQ ID NO:4 sequence SEQ ID NO:528.
XX
XX Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;
XX KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;
XX KW skeletal muscle disorder; amplicon; screening; ss.
XX OS Homo sapiens.
XX
XX WO200192524-A2.
XX
XX 06-DEC-2001.
XX
XX 25-MAY-2001; 2001WO-US16981.
XX
XX 26-MAY-2000; 2000US-207456P.
XX 21-SEP-2000; 2000US-234687P.
XX 27-SEP-2000; 2000US-236359P.
XX 04-OCT-2000; 2000GB-0024263.
XX 30-JAN-2001; 2001WO-US00661.
XX 30-JAN-2001; 2001WO-US00662.
XX 30-JAN-2001; 2001WO-US00663.
XX 30-JAN-2001; 2001WO-US00664.
XX 30-JAN-2001; 2001WO-US00665.
XX 30-JAN-2001; 2001WO-US00666.
XX 30-JAN-2001; 2001WO-US00667.
XX 30-JAN-2001; 2001WO-US00668.
XX 30-JAN-2001; 2001WO-US00669.
XX 30-JAN-2001; 2001WO-US00670.
XX 05-FEB-2001; 2001US-266860P.
XX
XX (ABOM-) ABOMICA INC.
XX
XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;
XX WPI; 2002-179446/23.
XX
XX New polypeptide, for raising antibodies that recognize hGDMPLP-1
XX PT proteins, or as specific biomolecule capture probes for
XX PT surface-enhanced laser desorption/ionization, comprises human
XX PT myosin-like protein hGDMPLP-1 -
XX
XX Disclosure; SEQ ID 527; 214pp; English.
XX PS
```

XX PS Example 2; SEQ ID NO 1762; 60pp + Sequence Listing; English.

XX CC The invention relates to an isolated SH3 domain (POSH)-like signalling

CC protein 1 (POSHL 1) polypeptide (I), comprising a sequence of 730 amino

CC acids (S1, ABB83999), a sequence having 65% sequence identity to (S1),

CC (S1) having 95% deviations, especially conservative substitutions or a

CC fragment of the sequences comprising at least 8 contiguous amino acids.

CC Human POSHL 1 is a proto-oncogene/oncogene product that functions as an

CC adaptor protein that interacts with Rho family small GTPases as well as

CC downstream components of the signal transduction pathway. (I) is useful

CC for identifying a specific binding partner. (I) and nucleic acids (II)

CC encoding (I) are useful for diagnosing, monitoring disease and treating

CC caused by altered expression of human POSHL1 including diagnosing and

CC treating cancer, they useful in the development of vaccines and (II) is

CC useful in gene therapy. (II) is useful for constructing microarrays which

CC are useful for measuring and for surveying gene expression and creating

CC transgenic non-human animals capable of producing the proteins. The

CC present sequence is that of a scanning oligonucleotide useful in examples

CC of the invention.

CC Note: The present sequence did not form part of the printed

CC specification, but is based on sequence information supplied to Derwent

CC by the European Patent Office.

XX SQ Sequence 17 BP; 5 A; 2 C; 6 G; 4 T; 0 other;

Query Match 8.8%; Score 12.2; DB 1; Length 17;

Best Local Similarity 82.4%; Pred. No. 2.3e+02;

Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1749 CCTATCTCTAAAGGCCCA 1765

Db 17 CTTGTCTCTAAAGTCCCA 1

RESULT 116

ABV91050/c

ID ABV91050 standard; DNA; 17 BP.

XX AC ABV91050;

XX DT 23-DEC-2002 (first entry)

XX DE Human POSHL1 scanning oligonucleotide SEQ ID NO 1763.

XX KW Human; POSHL 1; SH3 domain; POSH-like signalling protein 1; oncogene;

XX KW Rho GTPase; signal transduction; gene expression; cancer; vaccine;

XX KW gene therapy; transgenic; ss.

XX OS Homo sapiens.

XX FN EP1239051-A2.

XX PD 11-SEP-2002.

XX PF 28-JAN-2002; 2002EP-0001165.

XX PR 30-JAN-2001; 2001WO-US00663.

XX PR 30-JAN-2001; 2001WO-US00664.

XX PR 30-JAN-2001; 2001WO-US00665.

XX PR 30-JAN-2001; 2001WO-US00666.

XX PR 30-JAN-2001; 2001WO-US00667.

XX PR 30-JAN-2001; 2001WO-US00668.

XX PR 30-JAN-2001; 2001WO-US00669.

XX PR 30-JAN-2001; 2001WO-US00670.

XX PR 23-MAY-2001; 2001US-0864761.

XX PR 10-OCT-2001; 2001US-0328205.

XX PA (AEOM-) AEOMICA INC.

XX PI Shannon M;

XX WPI; 2002-684061/74.

XX PT Novel human SH3 domain (POSH)-like signalling protein 1 polypeptide,

PT POSHL-1, useful for treating disorders associated with decreased

PT expression or activity of human POSHL1 -

XX PS Example 2; SEQ ID NO 1763; 60pp + Sequence Listing; English.

XX CC The invention relates to an isolated SH3 domain (POSH)-like signalling

CC protein 1 (POSHL 1) polypeptide (I), comprising a sequence of 730 amino

CC acids (S1, ABB83999), a sequence having 65% sequence identity to (S1),

CC (S1) having 95% deviations, especially conservative substitutions or a

CC fragment of the sequences comprising at least 8 contiguous amino acids.

CC Human POSHL 1 is a proto-oncogene/oncogene product that functions as an

CC adaptor protein that interacts with Rho family small GTPases as well as

CC downstream components of the signal transduction pathway. (I) is useful

CC for identifying a specific binding partner. (I) and nucleic acids (II)

CC encoding (I) are useful for diagnosing, monitoring disease and treating

CC caused by altered expression of human POSHL1 including diagnosing and

CC treating cancer, they useful in the development of vaccines and (II) is

CC useful in gene therapy. (II) is useful for constructing microarrays which

CC are useful for measuring and for surveying gene expression and creating

CC transgenic non-human animals capable of producing the proteins. The

CC present sequence is that of a scanning oligonucleotide useful in examples

CC of the invention.

CC Note: The present sequence did not form part of the printed

CC specification, but is based on sequence information supplied to Derwent

CC by the European Patent Office.

XX SQ Sequence 17 BP; 5 A; 2 C; 7 G; 3 T; 0 other;

Query Match 8.8%; Score 12.2; DB 1; Length 17;

Best Local Similarity 82.4%; Pred. No. 2.3e+02;

Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1748 CCTATCTCTAAAGGCC 1764

Db 17 CTTGTCTCTAAAGTCCC 1

RESULT 117

ABK97683

ID ABK97683 standard; DNA; 17 BP.

XX AC ABK97683;

XX DT 07-OCT-2002 (first entry)

XX DE Cytochrome P450 3A (CYP3A) PCR primer #1.

XX KW Cytochrome P450; CYP3AP1; CYP3AP2; CYP3A43; CYP3A4; CYP3A5; CYP3A7;

XX KW drug metabolism; drug design; drug screening; PCR; primer; ss.

XX OS Synthetic.

XX FN WO200244213-A1.

XX PD 06-JUN-2002.

XX PF 28-NOV-2001; 2001WO-SE02631.

XX PR 28-NOV-2000; 2000SE-0004366.

XX PR 11-JUN-2001; 2001SE-0002061.

XX PA (ZAPH/) ZAPHIROPOULOS P G.

XX PA (FINT/) FINTA C.

XX PI Zaphiropoulos PG, Finta C;

XX WPI; 2002-557532/59.

XX Novel cytochrome P450 protein in which CYP3A43 exon 1 is joined to sets

XX of CYP3A4 or CYP3A5 exons, useful as medicament, and in evaluating drug

XX metabolism, in drug design and drug screening -

CC Human POSHL 1 is a proto-oncogene/oncogene product that functions as an
 CC adaptor protein that interacts with Rho family small GTPases as well as
 CC downstream components of the signal transduction pathway. (I) is useful
 CC for identifying a specific binding partner. (I) and nucleic acids (II)
 CC encoding (I) are useful for diagnosing, monitoring disease and treating
 CC caused by altered expression of human POSHL1 including diagnosing and
 CC treating cancer, they useful in the development of vaccines and (II) is
 CC useful in gene therapy. (II) is useful for constructing microarrays which
 CC are useful for measuring and for surveying gene expression and creating
 CC transgenic non-human animals capable of producing the proteins. The
 CC present sequence is that of a scanning oligonucleotide useful in examples
 CC of the invention.
 CC Note: The present sequence did not form part of the printed
 CC specification, but is based on sequence information supplied to Derwent
 CC by the European Patent Office.

XX SQ Sequence 17 BP; 2 A; 6 C; 5 G; 4 T; 0 other;
 Query Match 8.8%; Score 12.2; DB 1; Length 17;
 Best Local Similarity 82.4%; Pred. No. 2.3e+02;
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1673 GGAAACCCCTGGTCTCC 1689
 Db 1 GGAGCCCTGGTCTCTAC 17
 ||||| ||||| |||||

RESULT 114
 ABV90899
 ID ABV90899 standard; DNA; 17 BP.
 AC ABV90899;
 XX 23-DEC-2002 (first entry)
 XX Human POSHL1 scanning oligonucleotide SEQ ID NO 1612.
 XX Human; POSHL 1; SH3 domain; POSH-like signalling protein 1; oncogene;
 KW Rho GTPase; signal transduction; gene expression; cancer; vaccine;
 KW gene therapy; transgenic; ss.
 XX Homo sapiens.
 OS
 XX EPI239051-A2.
 PN
 XX 11-SEP-2002.
 PD
 XX 28-JAN-2002; 2002EP-0001165.
 PF
 XX 30-JAN-2001; 2001WO-US00663.
 PR
 XX 30-JAN-2001; 2001WO-US00664.
 PR
 XX 30-JAN-2001; 2001WO-US00665.
 PR
 XX 30-JAN-2001; 2001WO-US00666.
 PR
 XX 30-JAN-2001; 2001WO-US00667.
 PR
 XX 30-JAN-2001; 2001WO-US00668.
 PR
 XX 30-JAN-2001; 2001WO-US00669.
 PR
 XX 30-JAN-2001; 2001WO-US00670.
 PR
 XX 23-MAY-2001; 2001US-0864761.
 PR
 XX 10-OCT-2001; 2001US-0328205.
 XX (AEOM-) AEOMICA INC.
 PA
 XX Shannon M;
 PI
 XX WPI; 2002-684061/74.

XX Novel human SH3 domain (POSH)-like signalling protein 1 polypeptide,
 PT POSHL-1, useful for treating disorders associated with decreased
 PT expression or activity of human POSHL1 -
 XX
 PS Example 2; SEQ ID NO 1612; 60pp + Sequence Listing; English.
 XX
 CC The invention relates to an isolated SH3 domain (POSH)-like signalling

CC protein 1 (POSHL 1) polypeptide (I), comprising a sequence of 730 amino
 CC acids (SI, ABB83999), a sequence having 65% sequence identity to (SI),
 CC (SI) having 95% deviations, especially conservative substitutions or a
 CC fragment of the sequences comprising at least 8 contiguous amino acids.
 CC Human POSHL 1 is a proto-oncogene/oncogene product that functions as an
 CC adaptor protein that interacts with Rho family small GTPases as well as
 CC downstream components of the signal transduction pathway. (I) is useful
 CC for identifying a specific binding partner. (I) and nucleic acids (II)
 CC encoding (I) are useful for diagnosing, monitoring disease and treating
 CC caused by altered expression of human POSHL1 including diagnosing and
 CC treating cancer, they useful in the development of vaccines and (II) is
 CC useful in gene therapy. (II) is useful for constructing microarrays which
 CC are useful for measuring and for surveying gene expression and creating
 CC transgenic non-human animals capable of producing the proteins. The
 CC present sequence is that of a scanning oligonucleotide useful in examples
 CC of the invention.
 CC Note: The present sequence did not form part of the printed
 CC specification, but is based on sequence information supplied to Derwent
 CC by the European Patent Office.

XX SQ Sequence 17 BP; 3 A; 8 C; 2 G; 4 T; 0 other;
 Query Match 8.8%; Score 12.2; DB 1; Length 17;
 Best Local Similarity 82.4%; Pred. No. 2.3e+02;
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1677 CCCTGGTGTCTCTCCA 1693
 Db 1 CCCTGGTGTCTACACCA 17
 ||||| ||||| |||||

RESULT 115
 ABV91049/c
 ID ABV91049 standard; DNA; 17 BP.
 AC ABV91049;
 XX 23-DEC-2002 (first entry)
 XX Human POSHL1 scanning oligonucleotide SEQ ID NO 1762.
 DE
 XX Human; POSHL 1; SH3 domain; POSH-like signalling protein 1; oncogene;
 KW Rho GTPase; signal transduction; gene expression; cancer; vaccine;
 KW gene therapy; transgenic; ss.
 XX Homo sapiens.
 OS
 XX EPI239051-A2.
 PN
 XX 11-SEP-2002.
 PD
 XX 28-JAN-2002; 2002EP-0001165.
 PF
 XX 30-JAN-2001; 2001WO-US00663.
 PR
 XX 30-JAN-2001; 2001WO-US00664.
 PR
 XX 30-JAN-2001; 2001WO-US00665.
 PR
 XX 30-JAN-2001; 2001WO-US00666.
 PR
 XX 30-JAN-2001; 2001WO-US00667.
 PR
 XX 30-JAN-2001; 2001WO-US00668.
 PR
 XX 30-JAN-2001; 2001WO-US00669.
 PR
 XX 23-MAY-2001; 2001US-0864761.
 PR
 XX 10-OCT-2001; 2001US-0328205.
 XX (AEOM-) AEOMICA INC.
 PA
 XX Shannon M;
 PI
 XX WPI; 2002-684061/74.

XX Novel human SH3 domain (POSH)-like signalling protein 1 polypeptide,
 PT POSHL-1, useful for treating disorders associated with decreased
 PT expression or activity of human POSHL1 -
 XX

CC such disorder associated with decreased expression or activity of human
CC HTPN. Such disorders include disorders of testis, or adrenal, adult and
CC fetal liver, bone marrow, brain, kidney, lung, placenta, prostate,
CC skeletal muscle or colon function. HTPN proteins and nucleic acids are
CC clinically useful diagnostic markers and potential therapeutic agents for
CC male infertility and cancer. The present oligonucleotide was used in an
CC example from the invention.
XX
SQ Sequence 17 BP; 3 A; 7 C; 4 G; 3 T; 0 other;
Query Match 8.8%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 2.3e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 1662 GGCTCACAGCTGGAACC 1678
Db 1 GACTCACTGCTGGACCC 17
RESULT 112
ABV90893
ID ABV90893 standard; DNA; 17 BP.
XX
AC ABV90893;
XX
DT 23-DEC-2002 (first entry)
DE Human POSHL1 scanning oligonucleotide SEQ ID NO 1606.
XX
KW Human; POSHL1; SH3 domain; POSH-like signalling protein 1; oncogene;
KW Rho GTPase; signal transduction; gene expression; cancer; vaccine;
KW gene therapy; transgenic; ss.
XX
OS Homo sapiens.
XX
FN EPI239051-A2.
XX
PD 11-SEP-2002.
XX
PF 28-JAN-2002; 2002EP-0001165.
XX
PR 30-JAN-2001; 2001WO-US00663.
PR 30-JAN-2001; 2001WO-US00664.
PR 30-JAN-2001; 2001WO-US00665.
PR 30-JAN-2001; 2001WO-US00666.
PR 30-JAN-2001; 2001WO-US00667.
PR 30-JAN-2001; 2001WO-US00668.
PR 30-JAN-2001; 2001WO-US00669.
PR 30-JAN-2001; 2001WO-US00670.
PR 23-MAY-2001; 2001US-0864761.
PR 10-OCT-2001; 2001US-0328205.
XX
FA (AEOM-) AEOMICA INC.
XX
PI Shannon M;
XX
PI WPI; 2002-684061/74.
XX
PT Novel human SH3 domain (POSH)-like signalling protein 1 polypeptide,
PT POSHL-1, useful for treating disorders associated with decreased
PT expression or activity of human POSHL1 -
XX
PS Example 2; SEQ ID NO 1606; 60pp + Sequence Listing; English.
XX
CC The invention relates to an isolated SH3 domain (POSH)-like signalling
CC protein 1 (POSHL1) polypeptide (I), comprising a sequence of 730 amino
CC acids (S1, AB83999), a sequence having 65% sequence identity to (S1),
CC (S1) having 95% deviations, especially conservative substitutions or a
CC fragment of the sequences comprising at least 8 contiguous amino acids.
CC Human POSHL1 is a proto-oncogene/oncogene product that functions as an
CC adaptor protein that interacts with Rho family small GTPases as well as
CC downstream components of the signal transduction pathway. (I) is useful
CC for identifying a specific binding partner. (I) and nucleic acids (II)

CC encoding (I) are useful for diagnosing, monitoring disease and treating
CC caused by altered expression of human POSHL1 including diagnosing and
CC treating cancer, they useful in the development of vaccines and (II) is
CC useful in gene therapy. (II) is useful for constructing microarrays which
CC are useful for measuring and for surveying gene expression and creating
CC transgenic non-human animals capable of producing the proteins. The
CC present sequence is that of a scanning oligonucleotide useful in examples
CC of the invention.
CC Note: The present sequence did not form part of the printed
CC specification, but is based on sequence information supplied to Derwent
CC by the European Patent Office.
XX
SQ Sequence 17 BP; 1 A; 7 C; 5 G; 4 T; 0 other;
Query Match 8.8%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 2.3e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 1671 CTGGAACCCCTGCTCTCT 1687
Db 1 CCGGAGCCCTGCTCTCT 17
RESULT 113
ABV90895
ID ABV90895 standard; DNA; 17 BP.
XX
AC ABV90895;
XX
DT 23-DEC-2002 (first entry)
DE Human POSHL1 scanning oligonucleotide SEQ ID NO 1608.
XX
KW Human; POSHL1; SH3 domain; POSH-like signalling protein 1; oncogene;
KW Rho GTPase; signal transduction; gene expression; cancer; vaccine;
KW gene therapy; transgenic; ss.
XX
OS Homo sapiens.
XX
FN EPI239051-A2.
XX
PD 11-SEP-2002.
XX
PF 28-JAN-2002; 2002EP-0001165.
XX
PR 30-JAN-2001; 2001WO-US00663.
PR 30-JAN-2001; 2001WO-US00664.
PR 30-JAN-2001; 2001WO-US00665.
PR 30-JAN-2001; 2001WO-US00666.
PR 30-JAN-2001; 2001WO-US00667.
PR 30-JAN-2001; 2001WO-US00668.
PR 30-JAN-2001; 2001WO-US00669.
PR 30-JAN-2001; 2001WO-US00670.
PR 23-MAY-2001; 2001US-0864761.
PR 10-OCT-2001; 2001US-0328205.
XX
FA (AEOM-) AEOMICA INC.
XX
PI Shannon M;
XX
PI WPI; 2002-684061/74.
XX
PT Novel human SH3 domain (POSH)-like signalling protein 1 polypeptide,
PT POSHL-1, useful for treating disorders associated with decreased
PT expression or activity of human POSHL1 -
XX
PS Example 2; SEQ ID NO 1608; 60pp + Sequence Listing; English.
XX
CC The invention relates to an isolated SH3 domain (POSH)-like signalling
CC protein 1 (POSHL1) polypeptide (I), comprising a sequence of 730 amino
CC acids (S1, AB83999), a sequence having 65% sequence identity to (S1),
CC (S1) having 95% deviations, especially conservative substitutions or a
CC fragment of the sequences comprising at least 8 contiguous amino acids.
CC Human POSHL1 is a proto-oncogene/oncogene product that functions as an
CC adaptor protein that interacts with Rho family small GTPases as well as
CC downstream components of the signal transduction pathway. (I) is useful
CC for identifying a specific binding partner. (I) and nucleic acids (II)

DT 12-MAR-2002 (first entry)
XX Human NOGO Hammerhead Ribozyme #576.
DE
XX
XX Human; ss; antisense therapy; cytostatic; antiinflammatory; haemostatic;
KW cerebroprotective; nootropic; neuroprotective; antiparkinsonian;
KW muscular; CD20; neurite growth inhibitor gene; NOGO; hammerhead ribozyme;
KW DNazyme; inozyme; G-cleaver; amberyzyme; zinzyme; lymphoma; leukaemia;
KW B-cell lymphoma; non-Hodgkin's lymphoma; NHL; lymphocytic leukaemia;
KW human immunodeficiency virus; HIV associated NHL; mantle-cell lymphoma;
KW MCL; immunocytoma; IMC; immune thrombocytopaenia; stroke; dementia;
KW inflammatory arthropathy; central nervous system injury;
KW cerebrovascular accident; CVA; Alzheimer's disease; multiple sclerosis;
KW chemotherapy-induced neuropathy; amyotrophic lateral sclerosis; ALS;
KW Parkinson's disease; ataxia; Huntington's disease;
KW Creutzfeldt-Jakob disease; muscular dystrophy; neurodegenerative disease.
XX
OS Homo sapiens.
OS Synthetic.
OS
PN WO200159103-A2.
XX
XX 16-AUG-2001.
XX
XX 09-FEB-2001; 2001WO-US04273.
XX
XX 11-FEB-2000; 2000US-181797P.
XX 28-FEB-2000; 2000US-185516P.
XX 06-MAR-2000; 2000US-187128P.
XX
XX (RIBO-) RIBOZYME PHARM INC.
PA (BLATT/) BLATT L.
PA (MCSW/) MCSWIGGEN J.
PA (CHOW/) CHOWRIRA B M.
XX
XX Blatt L, McSwiggen J, Chowrira BM;
PI WPI; 2001-607195/69.
XX
XX Nucleic acid molecules, e.g., enzymatic nucleic acids and antisense
PT constructs, which down regulate expression of a CD20 gene or neurite
PT growth inhibitor gene useful for treating, e.g., lymphoma, leukemia,
PT and central nervous system injury -
XX
PS Claim 88; Page 75; 200pp; English.
XX
XX The invention relates to a nucleic acid molecule which down regulates
CC expression of a CD20 gene and a nucleic acid molecule which down
CC regulates expression of a neurite growth inhibitor gene (NOGO).
CC The nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a
CC DNazyme) an inozyme (an endolytic nucleic acid cleaving an RNA molecule
CC possessing an NCH motif), a G-cleaver (cleaving RNA with a NYN
CC motif) or an amberyzyme (cleaving RNA with an NGN triplet), a zinzyme
CC (cleaving RNA with a YGY motif). The CD20-targetting nucleic acid is used
CC to cleave RNA of CD20 in the presence of a divalent cation that is
CC preferably Mg²⁺. Furthermore, it may be contacted with a cell to reduce
CC CD20 activity of the cell and treat a patient having a condition
CC associated with the level of CD20. The treatment may further comprise the
CC use of one or more therapies. In particular, the CD20 targeting
CC nucleic acid may be used to treat lymphoma, leukaemia, B-cell
CC lymphoma, low-grade or follicular non-Hodgkin's lymphoma (NHL), bulky
CC low-grade or follicular NHL, lymphocytic leukaemia, HIV (human
CC immunodeficiency virus) associated NHL, mantle-cell lymphoma (MCL),
CC immunocytoma (IMC), small B-cell lymphocytic lymphoma, immune
CC thrombocytopaenia, and inflammatory arthropathy. The NOGO-targetting
CC nucleic acid is used to cleave RNA of the NOGO gene in the presence of a
CC divalent cation that is preferably Mg²⁺. Furthermore, the nucleic acid
CC may be contacted with a cell to reduce NOGO activity of the cell and
CC treat a patient having a condition associated with the level of NOGO. The
CC treatment may further comprise the use of one or more therapies.
CC In particular, the NOGO-targetting nucleic acid may be used to treat
CC central nervous system (CNS) injury and cerebrovascular accident (CVA,
CC stroke), Alzheimer's disease, dementia, multiple sclerosis (MS),

CC chemotherapy-induced neuropathy, amyotrophic lateral sclerosis (ALS),
CC Parkinson's disease, ataxia, Huntington's disease, Creutzfeldt-Jakob
CC disease, muscular dystrophy, and/or other neurodegenerative disease
CC states which respond to the modulation of NOGO expression. The
CC present sequence is a hammerhead ribozyme of the invention.
XX
SQ Sequence 17 BP; 5 A; 2 C; 5 G; 5 U; 0 other;
Query Match 8.8%; Score 12.2; DB 1; Length 17;
Best Local Similarity 58.8%; Pred. No. 2.3e+02;
Matches 10; Conservative 4; Mismatches 3; Indels 0; Gaps 0;
QY 1704 AGTTGGGTTAGAGTAC 1720
Db 1 AGUGGUCAGAGUAC 17
RESULT 111
ABV79506
ID ABV79506 standard; DNA; 17 BP.
XX
XX AC ABV79506;
XX
XX 03-JAN-2003 (first entry)
DT Human HTPL scanning oligonucleotide SEQ ID 752.
DE
XX Human; gene therapy; tumour suppressor; HTPL; chromosome 10p12.1;
XX human testis expressed Patched like protein; testis; adrenal; liver;
KW male germ cell development; bone marrow; brain; kidney; lung; placenta;
KW prostate; skeletal muscle; colon; male infertility; cancer; ss.
XX
XX Homo sapiens.
XX
XX EP1229045-A2.
XX
XX 07-AUG-2002.
XX
XX 28-JAN-2002; 2002EP-0001167.
XX
XX 30-JAN-2001; 2001WO-US00663.
PR 30-JAN-2001; 2001WO-US00664.
PR 30-JAN-2001; 2001WO-US00665.
PR 30-JAN-2001; 2001WO-US00667.
PR 30-JAN-2001; 2001WO-US00668.
PR 30-JAN-2001; 2001WO-US00669.
PR 23-MAY-2001; 2001US-0864761.
PR 09-OCT-2001; 2001US-0327898.
XX
XX (AEOM-) AEOMICA INC.
XX
XX Zhan J;
PI WPI; 2002-676582/73.
XX
XX Novel isolated human testis expressed Patched like protein (HTPL),
PT useful for identifying agonist and antagonist and specific binding
PT partners, and for treating subjects having defects in HTPL -
XX
XX Example 2; Page 162; 718pp; English.
XX
XX The present invention relates to human testis expressed Patched like
CC protein (HTPL, see ABV78759 to ABV78762 and AB98520). HTPL
CC has two isoforms, with a few single base pair differences between the
CC two. One of the single base pair changes introduces a premature stop
CC codon in HTPL-S (S for short) compared to HTPL-L (L for long). HTPL
CC shares an overall structure organisation with the Patched protein. The
CC shared structural features strongly imply that HTPL plays a role similar
CC to that of Patched, and is a potential tumour suppressor. HTPL is
CC important in regulating male germ cell development, and the HTPL gene was
CC mapped to human chromosome 10p12.1. HTPL and its coding sequence are
CC useful for diagnosing a disorder caused by mutation in HTPL, and in
CC therapy and manufacture of a medicament for treatment or prevention of

XX AC AAA55987;
 XX DT 05-SEP-2000 (first entry)
 XX DE Murine G713 amplification PCR primer SEQ ID NO:26.
 XX KW Human; chromosome 13; G713; chromosome 13q31-q33; schizophrenia;
 KW biallelic marker; polymorphism; central nervous disease; detection;
 KW neuroleptic; G713 gene expression inhibitor; genotyping; PCR primer;
 KW brain disorder; psychiatric disorder; bipolar disorder; ss.
 XX OS Mus musculus.
 XX PN WO200022122-A2.
 XX PD 20-APR-2000.
 XX PF 12-OCT-1999; 99WO-IB01730.
 XX PR 13-OCT-1998; 98US-0103955.
 XX PR 30-OCT-1998; 98US-0106457.
 XX PA (GEST) GENSET.
 XX PI Blumenfeld M, Bougueleret L, Chumakov I, Cohen D, Essioux L;
 XX DR WPI; 2000-317979/27.
 XX PT Novel polynucleotide of human G713 gene useful for diagnosis and
 PT prophylactic treatment of brain, psychiatric disorders like
 PT schizophrenia and bipolar disorders -
 XX PS Example 1; Page 144; 27pp; English.
 CC The present invention describes an isolated, purified or recombinant
 CC polynucleotide (PN) (I) comprising a contiguous span of 8 to 50
 CC nucleotides, where the span includes a G713 or chromosome 13q31-q33
 CC related biallelic marker. (I) has neuroleptic activity and can be used
 CC as a G713 gene expression inhibitor. (I) can be used genotyping to
 CC estimate the frequency of an allele of a G713 or chromosome 13q31-q33
 CC related biallelic marker in a population, and of a haplotype for a set
 CC of biallelic markers in a population. (I) is also useful in detecting
 CC an association between a haplotype and a trait. The frequency is used
 CC for detecting an association between a genotype and a trait being
 CC schizophrenia. The genotype is used to determine whether an individual
 CC is at risk of developing schizophrenia. (I) can also be used as a
 CC medicament against several disorders preferably brain, psychiatric
 CC disorders such as schizophrenia and bipolar disorder. Early
 CC identification of risk of developing schizophrenia is possible, which
 CC would enable early and/or prophylactic treatment. AAA55964 to AAA55966
 CC represent human G713 genomic DNA sequences; AAA55967 encodes the human
 CC G713 protein AAY90962; AAA55968 encodes the murine G713 protein
 CC AAY90963; AAA55992 to AAA56030 represent human chromosome 13q31-q33 locus
 CC biallelic markers A12 to A49; AAA55969 to AAA55991, and AAA56031 and
 CC AAA56032 represent PCR primers used in the exemplification of the present
 CC invention.
 XX SQ Sequence 17 BP; 1 A; 4 C; 8 G; 4 T; 0 other;
 Query Match 8.8%; Score 12.2; DB 1; Length 17;
 Best Local Similarity 82.4%; Pred. No. 2.3e+02;
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 QY 1685 TCTCTCCAGCGTGGTG 1701
 Db 1 TCTCTCCAGCGTGGG 17
 RESULT 109
 AAA24962
 ID AAA24962 standard; DNA; 17 BP.
 XX

AC AAA24962;
 XX 19-JUL-2000 (first entry)
 XX DE Oestrogen receptor hammerhead ribozyme target sequence SEQ ID NO:1460.
 XX KW Oestrogen receptor; c-raf; k-ras; bcl-2; ribozyme; cleavage;
 KW hammerhead ribozyme; hairpin ribozyme; antisense oligonucleotide;
 KW gene expression modification; cancer; phosphorothioate; endonuclease;
 KW anticancer; breast cancer; endometrium cancer; ss.
 XX OS Homo sapiens.
 XX PN WO9954459-A2.
 XX PD 28-OCT-1999.
 XX PF 19-APR-1999; 99WO-US08547.
 XX PR 20-APR-1998; 98US-0082404.
 XX PR 23-JUN-1998; 98US-0103636.
 XX PA (RIBO-) RIBOZYME PHARM INC.
 XX PI Thompson JD, Beigelman L, McSwiggen JA, Karpeisky A, Bellon L;
 XX PI Reynolds M, Zwick M, Jarvis T, Woolf T, Haeblerli P;
 XX PI Matulic-Adamic J;
 XX DR WPI; 2000-013248/01.
 XX PT New nucleic acids that interact, and optionally cleave, target
 PT sequences, used to treat cancer -
 XX PS Claim 77; Page 64; 148pp; English.
 CC The present invention describes nucleic acids (A) that interact stably
 CC with a target sequence and contain at least one phosphorodithioate
 CC link, having endonuclease activity. (A), and more generally any
 CC catalytic nucleic acid (A') that modulates expression of the oestrogen
 CC receptor gene, are used to treat cancer (particularly of breast or
 CC endometrium), in vivo or by transforming cells ex vivo and implanting
 CC treated cells, or for other conditions associated with levels of
 CC oestrogen receptor. Because of the high selectivity for targeted RNA, (A)
 CC can also be used to correlate inhibition of gene expression with
 CC alterations in phenotype, particularly for identification of therapeutic
 CC targets, and as research reagents (for RNA, in the same way that
 CC restriction endonucleases are used with DNA). The combination of
 CC modifications in (A) improves resistance to nucleases, binding affinity
 CC and/or activity. AAA23503 to AAA24747 represent oestrogen receptor
 CC hammerhead ribozyme sequences, and AAA24748 to AAA25992 represent their
 CC corresponding target sequences. AAA25993 to AAA26105 represent oestrogen
 CC receptor hairpin ribozyme sequences, and AAA26107 to AAA26218 represent
 CC their corresponding target sequences. AAA26219 to AAA26271 represent
 CC other ribozyme sequences and antisense oligonucleotides used in the
 CC exemplification of the present invention.
 XX SQ Sequence 17 BP; 2 A; 9 C; 1 G; 5 T; 0 other;
 Query Match 8.8%; Score 12.2; DB 1; Length 17;
 Best Local Similarity 82.4%; Pred. No. 2.3e+02;
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 QY 1740 CAATCTCTCTCTCTCTCTCT 1756
 Db 1 CAGCTCTCTCTCTCTCTCTCT 17
 RESULT 110
 ABK00576
 ID ABK00576 standard; RNA; 17 BP.
 XX
 AC ABK00576;
 XX

```

increases stability against nuclease and activity. AAV90922 to AAV93877
represent NACs that can be used in the method, specifically for
modulating the expression of a Raf gene.
Sequence 17 BP; 4 A; 8 C; 3 G; 2 U; 0 other;
Query Match      8.8%; Score 12.2; DB 1; Length 17;
Best Local Similarity 70.6%; Pred. NO. 2.3e+02;
Matches 12; Conservative 2; Mismatches 3; Indels 0; Gaps 0;
QY      1749 CCTATCCTCTAAAGGCCCA 1765
DB      1 CCCAUGCUCACAGGCCCA 17
          |||:|:|||||
RESULT 107
AAAF01969/c
ID      AAF01989 standard; DNA; 17 BP.
XX
XX      AAF01989;
XX
XX      16-FEB-2001 (first entry)
DT
XX
XX      Hammerhead ribozyme substrate #284.
DE
XX
XX      Ribozyme; erythropoietin; granulocyte colony stimulating factor;
XX      interferon alpha; ss.
KW
XX
XX      Homo sapiens.
OS
XX
XX      MO200061729-A2.
PN
XX
XX      19-OCT-2000.
XX
XX      11-APR-2000; 2000WO-US09721.
PF
XX
XX      12-APR-1999; 99US-0129390.
PR
XX
XX      (RIBO-) RIBOZYME PHARM INC.
PA
XX
XX      Blatt L, Zwick M, Pavco P, McSwiggen J;
PI
XX
XX      WPI; 2000-647423/62.
DR
XX
XX      Enzymatic and antisense nucleic acid inhibition of repressor genes,
PT      useful for producing e.g. granulocyte colony stimulating factor
PT      protein, interferon alpha and erythropoietin -
PT
XX
XX      Claim 37; Page 62; 164pp; English.
PS
XX
XX      The present invention relates to enzymatic and antisense nucleic acid
CC      molecules that act as inhibitors of the expression of repressor genes
CC      encoding the TR2 Orphan receptor, EAR3/COUP-TF-1, the GATA
CC      transcription factor gene, IRF-2 and/or the C/EBP Displacement
CC      protein (CDP). Inhibition of the repressors removes prevents
CC      inhibition (and consequently increases expression of) genes involved in
CC      the production of erythropoietin, granulocyte colony stimulating factor
CC      protein and interferon alpha.
XX
XX      Sequence 17 BP; 4 A; 6 C; 3 G; 4 T; 0 other;
SQ
Query Match      8.8%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. NO. 2.3e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY      1638 GCTTGTAGCAGAGGCCA 1654
DB      17 GCTTGTAGTACAGGCCA 1
          |||||:|:|||||
RESULT 108
AAAF55987
ID      AAA55987 standard; DNA: 17 BP
XX
XX      AAA55987

```

CC oligonucleotides of the invention.

XX SQ Sequence 17 BP; 1 A; 7 C; 4 G; 5 T; 0 other;
Query Match 8.8%; Score 12.4; DB 1; Length 17;
Best Local Similarity 92.9%; Pred. No. 2.1e+02;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1686 CTCCTCCAGCTGG 1699
| | | | | | | | | |
Db 4 CTCCTCCAGCTGG 17

RESULT 104

AA03827
ID AAT03827 standard; DNA; 17 BP.

XX AC AAT03827;

XX DT 18-MAR-1996 (first entry)

XX DE HLA-C-clone 10 polymerase chain reaction (PCR) primer.

XX KW HLA; cellular disorder; melanoma; diagnosis; identification; T cell;
XX KW cytotoxic; immune response; ss.

XX OS Homo sapiens.

XX XX WO9521630-A1.

XX PN 17-AUG-1995.

XX PD 26-JAN-1995; 95WO-US01446.

XX PF 18-AUG-1994; 94US-0292492.

XX PR 14-FEB-1994; 94US-0195186.

XX PR 15-FEB-1994; 94US-0196630.

XX PA (LUDW-) LUDWIG INST CANCER RES.

XX PI Boel P, Boon-Falleur T, Coullie P, Szikora J, Van Der Bruggen P;
PI Wildmann C;

XX WPI; 1995-292948/38.

XX DR Identification of cells presenting HLA-C-clone 10 or MAGP-1 derived
XX PT peptide - allows diagnosis and treatment of individuals with
XX PT cellular abnormalities, e.g. melanoma, also HLA-Cw*1601 derived
XX PT peptide(s)

XX PS Claim 20; Page 19; 26pp; English.

XX CC HLA-C-clone 10 is presented on the surface of certain abnormal cells,
XX CC MAGP-1 is also expressed by these cells. AAT03827-T03830 are PCR
XX CC primers for the HLA molecule that may be used in a kit to determine
XX CC the expression of HLA-C-clone 10. Peptides of such molecules that are
XX CC expressed and presented on the surface of abnormal cells are useful
XX CC for the identification of abnormal cells and thus they allow diagnosis
XX CC and treatment of cellular abnormalities, e.g. melanoma and other
XX CC cancers. The isolated nucleic acid molecules coding for the peptides
XX CC are also useful as probes for the determination of HLA-clone-C
XX CC expression. HLA-C-clone 10 is also known as HLA-Cw*1601.

XX SQ Sequence 17 BP; 6 A; 6 C; 5 G; 0 U; 0 other;

Query Match

Best Local Similarity 8.8%; Score 12.2; DB 1; Length 17;

Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1653 CAAGCACCAGGCTCACA 1669

| | | | | | | | | |
Db 1 CAAGGCCAGGCACAGA 17

RESULT 105

AAV93415/C

XX AC AAV93415;

XX DT 18-FEB-1999 (first entry)

XX DE Human B-raf substrate nucleotide position 835.

XX KW Human; C-raf; A-raf; B-raf; hammerhead ribozyme; hairpin ribozyme;
XX KW target; substrate; catalyst; modulation; expression; Raf gene;
XX KW delivery; screening; identification; synthesis; deprotection;
XX KW purification; cancer; inflammation; psoriasis; non-hepatic ascites;
XX KW infection; genetic drift; restenosis; rheumatoid arthritis; ss.

XX OS Homo sapiens.

XX XX WO9850530-A2.

XX PD 12-NOV-1998.

XX PF 05-MAY-1998; 98WO-US09249.

XX PR 19-DEC-1997; 97US-0068212.

XX PR 09-MAY-1997; 97US-0046059.

XX PR 09-JUN-1997; 97US-0049002.

XX PR 03-JUL-1997; 97US-0051718.

XX PR 22-AUG-1997; 97US-0056808.

XX PR 02-OCT-1997; 97US-0061321.

XX PR 02-OCT-1997; 97US-0061324.

XX PR 05-NOV-1997; 97US-0064866.

XX PA (RIBO-) RIBOZYME PHARM INC.

XX PI Beaudry A, Beigelman L, Bellon L, Burgin A, Jarvis T;
XX PI Karpeisky A, Kisich K, Matulic-Adamic J, McSwiggen JA;
XX PI Parry T, Reynolds M, Sweedler D, Thompson J, Workman CT;

XX WPI; 1999-009494/01.

XX DR Identifying new catalytic nucleic acid that modulates selected
XX PT processes - especially ribozymes that cleave Raf RNA for treating
XX PT cancer, restenosis, and also new ribozymes and modified nucleoside
XX PT triphosphates used as antiviral agents and synthons

XX PS Claim 177; Page 167; 259pp; English.

XX CC A method has been developed for the identification of a nucleic acid
XX CC capable of modulating a process in a biological system. The method
XX CC comprises: (a) introducing into the system a random library of nucleic
XX CC acid catalysts (NAC) having a substrate binding domain (SBD), comprising
XX CC a random sequence, and a catalytic domain (CD); and (b) identifying NAC
XX CC in systems where modulation has occurred and/or determining the sequence
XX CC of at least part of the SBDs in such systems. Nucleic acid molecules
XX CC with endonuclease activity and catalytic activity, from the present
XX CC invention, are used to modulate gene expression in plant and mammalian
XX CC cells and to cleave target nucleic acid, particularly for treating
XX CC systemic diseases caused by specific RNA, e.g. cancer, inflammation,
XX CC psoriasis, non-hepatic ascites and infection. They may also be used to
XX CC detect genetic drift and mutations in diseased cells and to determine
XX CC c-raf RNA. Specifically NACs with RNA-cleaving activity that modulate
XX CC expression of the Raf gene, are used to treat cancer, restenosis,
XX CC psoriasis or rheumatoid arthritis, or generally any condition associated
XX CC with the level of c-raf. Introduction of sugar/phosphate modifications
XX CC increases stability against nuclease and activity. AAV90922 to AAV93877
XX CC represent NACs that can be used in the method, specifically for
XX CC modulating the expression of a Raf gene.

XX SQ Sequence 17 BP; 2 A; 5 C; 5 G; 5 U; 0 other;

Query Match

8.8%; Score 12.2; DB 1; Length 17;


```
SQ Sequence 17 BP; 3 A; 8 C; 0 G; 6 T; 0 other;
Query Match      8.9%; Score 12.4; DB 1; Length 17;
Best Local Similarity 92.9%; Pred. No. 2.1e+02;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1696 GTGGTGAAGTTGG 1709
| ||||| |||||
Db 15 GAGGTGGAAGTTGG 2

RESULT 102
ABA80624/C
ID ABA80624 standard; DNA; 17 BP.
XX
AC ABA80624;
XX
DT 24-JAN-2002 (first entry)
XX
DE APOE mutation correcting oligonucleotide SEQ ID NO: 3470.
XX
XX Human; gene therapy; adenosine deaminase deficiency; p53; beta-globin;
KW retinoblastoma; BRCA1; BRCA2; CFTR; cystic fibrosis; cancer; Factor V;
KW cyclin-dependent kinase inhibitor 2A; CDKN2A; melanoma; APC; HBA1; HBA2;
KW adenomatous polyposis of the colon; Factor VII; Factor IX; thrombosis;
KW haemophilia; alpha thalassaemia; haemoglobin alpha locus 1; MLH1; APOE;
KW mismatch repair; MSH2; MSH6; hyperlipidaemia; apolipoprotein E; LDLR;
KW familial hypercholesterolaemia; UGT1; syndrome; APP; PSEN1; antisense;
KW UDP-glucuronosyltransferase; amyloid precursor protein; presenilin-1;
KW Alzheimer's disease; cytosstatic; antislacking; antianaemic; haemostatic;
KW antilipemic; ss.
XX
OS Homo sapiens.
XX
PN WO200173002-A2.
XX
PD 04-OCT-2001.
XX
PF 27-MAR-2001; 2001WO-US09761.
XX
PR 27-MAR-2000; 2000US-192176P.
XX
PR 27-MAR-2000; 2000US-192179P.
XX
PR 01-JUN-2000; 2000US-208538P.
XX
PR 30-OCT-2000; 2000US-244989P.
XX
PA (UYDE ) UNIV DELAWARE.
XX
PI Kmiec EB, Gamper HB, Rice MC;
XX
XX WPI; 2001-639230/73.
XX
XX Oligonucleotide for targeted alterations of genetic sequences and for
XX treating cystic fibrosis, comprises at least one mismatch and chemical
XX modification -
XX
XX Claim 7; Page 234; 294pp; English.
XX
XX The present invention provides single-stranded oligonucleotides which can
XX be used for the targeted alteration of genomic sequences, where the
XX oligonucleotide has at least one mismatch compared with the genomic
XX sequence to be altered. In particular, these sequences are directed at
XX the following genes: adenosine deaminase, p53, beta-globin,
XX retinoblastoma, BRCA1, BRCA2, CFTR, cyclin-dependent kinase inhibitor 2A
XX (CDKN2A), APC, Factor V, Factor VII, Factor IX, haemoglobin alpha locus
XX 1 (HBA1), haemoglobin alpha locus 2 (HBA2), MLH1, MSH2, MSH6,
XX apolipoprotein E (APOE), LDL receptor (LDLR), UDP-glucuronosyltransferase
XX (UGT1), amyloid precursor protein (APC), presenilin-1 (PSEN1) and
XX presenilin-2 (PSEN2). These can be used in the gene therapy of diseases
XX such as cancer, adenosine deaminase deficiency, cystic fibrosis,
XX haemophilia, hypercholesterolaemia, thalassaemia, sickle cell anaemia,
XX Alzheimer's disease, melanoma, adenomatous polyposis of the colon and
XX various syndromes. The present sequence is one of the gene correcting
XX oligonucleotides of the invention.

SQ Sequence 17 BP; 5 A; 4 C; 7 G; 1 T; 0 other;
Query Match      8.9%; Score 12.4; DB 1; Length 17;
Best Local Similarity 92.9%; Pred. No. 2.1e+02;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1696 CTCTCCAGCTGG 1699
| ||||| |||||
Db 14 CTCTCCAGCTGG 1

RESULT 103
ABA80625
ID ABA80625 standard; DNA; 17 BP.
XX
AC ABA80625;
XX
DT 24-JAN-2002 (first entry)
XX
DE APOE mutation correcting oligonucleotide SEQ ID NO: 3471.
XX
XX Human; gene therapy; adenosine deaminase deficiency; p53; beta-globin;
KW retinoblastoma; BRCA1; BRCA2; CFTR; cystic fibrosis; cancer; Factor V;
KW cyclin-dependent kinase inhibitor 2A; CDKN2A; melanoma; APC; HBA1; HBA2;
KW adenomatous polyposis of the colon; Factor VII; Factor IX; thrombosis;
KW haemophilia; alpha thalassaemia; haemoglobin alpha locus 1; MLH1; APOE;
KW mismatch repair; MSH2; MSH6; hyperlipidaemia; apolipoprotein E; LDLR;
KW familial hypercholesterolaemia; UGT1; syndrome; APP; PSEN1; antisense;
KW UDP-glucuronosyltransferase; amyloid precursor protein; presenilin-1;
KW Alzheimer's disease; cytosstatic; antislacking; antianaemic; haemostatic;
KW antilipemic; ss.
XX
OS Homo sapiens.
XX
PN WO200173002-A2.
XX
PD 04-OCT-2001.
XX
PF 27-MAR-2001; 2001WO-US09761.
XX
PR 27-MAR-2000; 2000US-192176P.
XX
PR 27-MAR-2000; 2000US-192179P.
XX
PR 01-JUN-2000; 2000US-208538P.
XX
PR 30-OCT-2000; 2000US-244989P.
XX
PA (UYDE ) UNIV DELAWARE.
XX
PI Kmiec EB, Gamper HB, Rice MC;
XX
XX WPI; 2001-639230/73.
XX
XX Oligonucleotide for targeted alterations of genetic sequences and for
XX treating cystic fibrosis, comprises at least one mismatch and chemical
XX modification -
XX
XX Claim 7; Page 234; 294pp; English.
XX
XX The present invention provides single-stranded oligonucleotides which can
XX be used for the targeted alteration of genomic sequences, where the
XX oligonucleotide has at least one mismatch compared with the genomic
XX sequence to be altered. In particular, these sequences are directed at
XX the following genes: adenosine deaminase, p53, beta-globin,
XX retinoblastoma, BRCA1, BRCA2, CFTR, cyclin-dependent kinase inhibitor 2A
XX (CDKN2A), APC, Factor V, Factor VII, Factor IX, haemoglobin alpha locus
XX 1 (HBA1), haemoglobin alpha locus 2 (HBA2), MLH1, MSH2, MSH6,
XX apolipoprotein E (APOE), LDL receptor (LDLR), UDP-glucuronosyltransferase
XX (UGT1), amyloid precursor protein (APC), presenilin-1 (PSEN1) and
XX presenilin-2 (PSEN2). These can be used in the gene therapy of diseases
XX such as cancer, adenosine deaminase deficiency, cystic fibrosis,
XX haemophilia, hypercholesterolaemia, thalassaemia, sickle cell anaemia,
XX Alzheimer's disease, melanoma, adenomatous polyposis of the colon and
XX various syndromes. The present sequence is one of the gene correcting
XX oligonucleotides of the invention.
```

DE Histioocyte-secreted factor 3' PCR primer.
 XX
 KW Histioocyte-secreted factor; HSF; cytokine; antitumour; tumour;
 KW therapy; polymerase chain reaction; PCR; primer; ss.
 XX
 OS Synthetic.
 XX
 FN WO9613586-A2.
 XX
 PD 09-MAY-1996.
 XX
 PF 26-OCT-1995; 95WO-JP02200.
 XX
 ER 26-OCT-1994; 94JP-0297780.
 XX
 PA (SATO//) SATOMI N.
 XX
 PI Satomi N;
 XX
 DR WPI; 1996-239499/24.
 XX
 PT DNA encoding histioocyte-secreted factor and its variants - useful as
 PT an anti-tumour agent and for studying tumour regression, having low
 PT cytotoxicity compared to TNF
 XX
 ES Example 5; Page 28; 52pp; English.
 XX
 CC A 5' PCR primer (AAT14820) and 3' primer (AAT14821) are based on
 CC peptides derived from rabbit histioocyte-secreted factor (HSF).
 CC They were used to amplify DNA from human TYH histiocyte cells,
 CC yielding the PCR product given in AAT14819. They were also
 CC used to amplify DNA from U-937 (human histiocyte lymphoma)
 CC cells, which revealed PCR products that led to the identification
 CC of a genomic clone (AAT14818) coding for human HSF (AAR96800), a
 CC novel cytokine.
 XX
 SQ Sequence 17 BP; 6 A; 5 C; 5 G; 1 T; 0 other;

Query Match 8.9%; Score 12.4; DB 1; Length 17;
 Best Local Similarity 92.9%; Pred. No. 2.1e+02;
 Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1655 AGCACCAGGCTCAC 1668
 |||||||||
 DB 2 AGAACCGGCTCAC 15

RESULT 100
 AAF02929/c
 ID AAF02929 standard; DNA; 17 BP.
 XX
 AC AAF02929;
 XX
 DT 16-FEB-2001 (first entry)
 XX
 DE Hammerhead ribozyme substrate #1224.
 XX
 KW Ribozyme; erythropoietin; granulocyte colony stimulating factor;
 KW interferon alpha; ss.
 XX
 OS Homo sapiens.
 XX
 FN WO200061729-A2.
 XX
 PD 19-OCT-2000.
 XX
 PF 11-APR-2000; 2000WO-US09721.
 XX
 PR 12-APR-1999; 99US-0129390.
 XX
 PA (RIBO-) RIBOZYME PHARM INC.
 XX
 PI Blatt L, Zwick M, Pavco P, McSwiggen J;

XX WPI; 2000-647423/62.
 DR
 XX Enzymatic and antisense nucleic acid inhibition of repressor genes,
 PT useful for producing e.g. granulocyte colony stimulating factor
 PT protein, interferon alpha and erythropoietin -
 XX
 PS Claim 37; Page 83; 164pp; English.
 XX
 CC The present invention relates to enzymatic and antisense nucleic acid
 CC molecules that act as inhibitors of the expression of repressor genes
 CC encoding the TR2 Orphan receptor, EAR3/COUP-TF-1, the GATA
 CC transcription factor gene, IRF-2 and/or the C/EBP Displacement
 CC Protein (CDP). Inhibition of the repressors removes prevents
 CC inhibition (and consequently increases expression of) genes involved in
 CC the production of erythropoietin, granulocyte colony stimulating factor
 CC protein and interferon alpha.
 XX
 SQ Sequence 17 BP; 3 A; 9 C; 0 G; 5 T; 0 other;
 Query Match 8.9%; Score 12.4; DB 1; Length 17;
 Best Local Similarity 92.9%; Pred. No. 2.1e+02;
 Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1696 GTGTTGGAAGTTGG 1709
 |||||||||
 DB 16 GAGGTGGAAGTTGG 3
 RESULT 101
 AAF02930/c
 ID AAF02930 standard; DNA; 17 BP.
 XX
 AC AAF02930;
 XX
 DT 16-FEB-2001 (first entry)
 XX
 DE Hammerhead ribozyme substrate #1225.
 XX
 KW Ribozyme; erythropoietin; granulocyte colony stimulating factor;
 KW interferon alpha; ss.
 XX
 OS Homo sapiens.
 XX
 FN WO200061729-A2.
 XX
 PD 19-OCT-2000.
 XX
 PF 11-APR-2000; 2000WO-US09721.
 XX
 PR 12-APR-1999; 99US-0129390.
 XX
 PA (RIBO-) RIBOZYME PHARM INC.
 XX
 PI Blatt L, Zwick M, Pavco P, McSwiggen J;
 XX
 DR WPI; 2000-647423/62.
 XX
 KW Enzymatic and antisense nucleic acid inhibition of repressor genes,
 PT useful for producing e.g. granulocyte colony stimulating factor
 PT protein, interferon alpha and erythropoietin -
 XX
 PS Claim 37; Page 83; 164pp; English.
 XX
 CC The present invention relates to enzymatic and antisense nucleic acid
 CC molecules that act as inhibitors of the expression of repressor genes
 CC encoding the TR2 Orphan receptor, EAR3/COUP-TF-1, the GATA
 CC transcription factor gene, IRF-2 and/or the C/EBP Displacement
 CC Protein (CDP). Inhibition of the repressors removes prevents
 CC inhibition (and consequently increases expression of) genes involved in
 CC the production of erythropoietin, granulocyte colony stimulating factor
 CC protein and interferon alpha.
 XX

CC comprises mixing the sample under stringent hybridisation conditions
 CC with a sequence-specific oligonucleotide probe that distinguishes the A',
 CC A' or B' allele from A and B alleles, and detecting any hybridisation.
 CC The method and probes are used for determining an individual's
 CC Glycophorin A genotype, especially useful for determining individual
 CC identity for forensic purposes. AAT70558-67 (and also AAT70582-83) are
 CC primers from the AmpliType (R) PM kit used in a Glycophorin A typing
 CC system developed by Hoffmann-La Roche. The primers direct the
 CC simultaneous amplification of specific regions of the following six
 CC genetic loci: Glycophorin A, HLA DQA1, Low density lipoprotein receptor,
 CC Haemoglobin G gamma-globin, D7S8 and group specific component. Probe
 CC strips are also provided in the kit (AAT70568-81).

XX Sequence 16 BP; 4 A; 9 C; 1 G; 2 T; 0 other;
 SQ Query Match 8.9%; Score 12.4; DB 1; Length 16;
 Best Local Similarity 92.9%; Pred. No. 1.9e+02;
 Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1698 GGTGGAAGTGGGT 1711
 Db 16 GGTGGAAGTGGGT 3

RESULT 97

AAQ67540
 ID AAC67540 standard; DNA; 16 BP.

XX AC AAC67540;

XX DT 14-FEB-2001 (first entry)

XX DE Alzheimer's disease-linked mitochondrial SNP PCR primer #240.

XX KW Human; mitochondrial genome; single nucleotide polymorphism; SNP;

XX XW Alzheimer's disease; mtDNA; PCR primer; ss.

XX OS Homo sapiens.

XX PN W0200063441-A2.

XX PD 26-OCT-2000.

XX PF 19-APR-2000; 2000WO-US10906.

XX PR 20-APR-1999; 99US-0130447.

XX PR 22-OCT-1999; 99US-0160901.

XX PA (MITO-) MITOKOR.

XX PI Herrstadt C, Davis RE;

XX DR WPI; 2000-672748/65.

XX PT Diagnosing a subject at the risk for or having Alzheimer's disease
 PT comprises determining at least one single nucleotide polymorphism in
 PT mitochondrial DNA associated with the disease in the sample from the
 PT subject -

XX PS Example 9; Page 53; 89pp; English.

XX CC The present invention describes a novel method for determining the risk
 CC of or diagnosing Alzheimer's disease using single nucleotide
 CC polymorphisms (SNPs) present in an individual's mitochondrial DNA
 CC (mtDNA). In addition, the SNPs identified can be used to identify agents
 CC suitable for use in treating Alzheimer's disease. Sequences
 CC AAC67301-C67610 are PCR primers used to demonstrate the method of the
 CC invention.

XX SQ Sequence 16 BP; 2 A; 3 C; 8 G; 3 T; 0 other;

Query Match 8.9%; Score 12.4; DB 1; Length 16;
 Best Local Similarity 92.9%; Pred. No. 1.9e+02;

Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1709 GGTAGAGTACGG 1722

Db 3 GGTAGAGTACGG 16

RESULT 98

AAQ29806/c

ID AAQ29806 standard; DNA; 17 BP.

XX AC AAQ29806;

XX DT 25-MAR-2003 (updated)

XX DT 19-MAR-1993 (first entry)

XX DE B allele probe VP08.

XX XW G-gamma globulin; GGG; polymorphism; HindIII; A allele; B; C;

XX XW genotype; paternity; forensic; ss.

XX OS Synthetic.

XX PN EP512342-A2.

XX PD 11-NOV-1992.

XX PF 25-APR-1992; 92EP-0107084.

XX PR 07-MAY-1991; 91US-0696793.

XX PA (HOFF) HOFFMANN LA ROCHE & CO AG F.

XX PI Nasarabadi SL, Saiki RK;

XX DR WPI; 1992-374679/46.

XX PT Determn. of an individuals genotype at the gamma-globin locus -
 PT using sequence-specific oligo-nucleotide probes corresp. to 3
 PT alleles

XX PS Disclosure; Page 17; 29pp; English.

XX CC The sequences given in AAQ29787-816 are probes which were used within
 CC the method of the invention for detecting the presence of a variant
 CC sequence in the G-gamma globulin (GGG) locus. The A, B and C
 CC alleles can be distinguished from one another by the polymorphic
 CC sequence corresponding to the HindIII site of the A allele. The
 CC sequences of the three alleles are given in AAQ29842-44. The methods
 CC for determining an individuals genotype at the GGG locus with
 CC respect to a set of alleles improves the discriminatory power of GGG
 CC typing methodology compared to previous methods using two alleles.
 CC (Updated on 25-MAR-2003 to correct PN field.)

XX SQ Sequence 17 BP; 4 A; 10 C; 1 G; 2 T; 0 other;

Query Match 8.9%; Score 12.4; DB 1; Length 17;

Best Local Similarity 92.9%; Pred. No. 2.1e+02;

Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1698 GGTGGAAGTGGGT 1711

Db 17 GGTGGAAGTGGGT 4

RESULT 99

AAT14821

ID AAT14821 standard; DNA; 17 BP.

XX AC AAT14821;

XX DT 17-SEP-1996 (first entry)

XX

DE PCR primer for amplifying chi-A gene sequence.

XX Anthocyanidin-3-glucoside rhamnosyltransferase;
KW Glucosyltransferase; inflorescence; flowering plants;
KW transgenic plant; Petunia hybrida; chi-A; ss.
XX Synthetic.

XX WO9403591-A1.

XX 17-FEB-1994.

XX 30-JUL-1993; 93WO-AU00387.

XX 30-JUL-1992; 92AU-0003846.

XX (ITFL-) INT FLOWER DEV PTY LTD.

XX Brugliera F, Holton TA;

XX WPI; 1994-065680/08.

XX Nucleic acid encoding glucosyltransferase enzymes - used for
PT producing transgenic plants with altered inflorescence properties
PT including modified petal colours

XX Example 17; Page 21; 76pp; English.

XX Two primers (AAQ56245, AAQ56246) were used to amplify the chi-A gene.
CC This primer corresponds to nucleotides 6-20 of the published chi-A
CC cDNA sequence. chi-A is a previously characterised flavonoid
CC biosynthesis gene.
CC (Updated on 25-MAR-2003 to correct PN field.)

XX Sequence 15 BP; 2 A; 5 C; 3 G; 5 T; 0 other;

Query Match 8.9%; Score 12.4; DB 1; Length 15;
Best Local Similarity 92.9%; Pred. No. 1.7e+02;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1683 TGCTCTCTCCAGCG 1696

DB 2 TGCTCTCTCCAGTG 15

RESULT 95

AAQ29808/c

ID AAQ29808 standard; DNA; 16 BP.

XX AAQ29808;

XX 25-MAR-2003 (updated)

DT 19-MAR-1993 (first entry)

XX B allele probe VP59.

XX G-gamma globulin; GGG; polymorphism; HindIII; A allele; B; C;
KW genotype; paternity; forensic; ss.
XX Synthetic.

XX EP512342-A2.

XX 11-NOV-1992.

XX 25-APR-1992; 92EP-0107084.

XX 07-MAY-1991; 91US-0696793.

XX (HOFF) HOFFMANN LA ROCHE & CO AG F.

XX Nasarabadi SL, Saiki RK;

XX

DR WPI; 1992-374679/46.

XX Determn. of an individuals genotype at the gamma-globin locus -
PT using sequence-specific oligo-nucleotide probes corresp. to 3
PT alleles

XX Disclosure; Page 18; 29pp; English.

XX The sequences given in AAQ29787-816 are probes which were used within
CC the method of the invention for detecting the presence of a variant
CC sequence in the G-gamma globulin (GGG) locus. The A, B and C
CC alleles can be distinguished from one another by the polymorphic
CC sequences corresponding to the HindIII site of the A allele. The
CC sequences of the three alleles are given in AAQ29842-44. The methods
CC for determining an individuals genotype at the GGG locus with
CC respect to a set of alleles improves the discriminatory power of GGG
CC typing methodology compared to previous methods using two alleles.
CC (Updated on 25-MAR-2003 to correct PN field.)

XX Sequence 16 BP; 4 A; 9 C; 1 G; 2 T; 0 other;

Query Match 8.9%; Score 12.4; DB 1; Length 16;

Best Local Similarity 92.9%; Pred. No. 1.9e+02;

Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1698 GGTGGAAGTGGGT 1711

DB 16 GGTGGAAGTGGGT 3

RESULT 96

AAAT70569/c

ID AAAT70569 standard; DNA; 16 BP.

XX AAAT70569;

XX 04-NOV-1997 (first entry)

XX Haemoglobin G gamma-globin allele B-specific probe.

XX Glycophorin A; sialoglycoprotein; human; erythrocyte; membrane;

XX M blood group antigen; N blood group antigen; allele A; B; A'; A''; B';

XX polymorphism; detection; sequence-specific oligonucleotide probe;

XX genotype; forensic; primer; PCR; polymerase chain reaction; amplify; ss.

XX Synthetic.

XX US5643724-A.

XX 01-JUL-1997.

XX 06-JUN-1994; 94US-0255264.

XX 06-JUN-1994; 94US-0255264.

XX (HOFF) ROCHE MOLECULAR SYSTEMS INC.

XX Fildes NJ, Reynolds RL;

XX WPI; 1997-350231/32.

XX Detection of glycophorin A allele(s) - by hybridisation assay using
PT sequence-specific oligo:nucleotide probes

XX Example 3; Column 15-16; 16pp; English.

XX Glycophorin A is a major sialoglycoprotein of the human erythrocyte
CC membrane. Glycophorin A carries the M or N blood group antigen, which is
CC determined by the amino acid at residues 1 and 5. Allele A encodes the
CC protein carrying the M blood group antigen and allele B encodes the
CC protein carrying the N blood group antigen. Three additional alleles
CC have been discovered, designated A', A'' and B'. Detecting an A', A'' or
CC B' allele of the Glycophorin A locus in a human nucleic acid sample

CC This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation.
 CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 CC ABI00010-ABI82073 represent the oligomers described in the invention.
 CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.

XX SQ Sequence 13 BP; 4 A; 0 C; 6 G; 2 T; 1 other;
 Query Match 9.1%; Score 12.6; DB 1; Length 13;
 Best Local Similarity 92.3%; Pred. No. 1.2e+02;
 Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1721 GGAGATGGAGATT 1733
 Db 1 GGAGATGGAGATY 13

RESULT 92
 ABF35839/c
 ID ABF35839 standard; DNA; 13 BP.
 XX AC ABF35839;
 XX DT 21-FEB-2002 (first entry)
 DE Oligonucleotide SEQ ID NO 135836 for detecting SNP TSC0033923.
 XX SNF; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 XX central nervous system; gastrointestinal; respiratory; immune; metabolic.

OS Homo sapiens.
 XX WO200177384-A2.
 XX PD 18-OCT-2001.
 XX PF 06-APR-2001; 2001WO-IB00713.
 XX PR 07-APR-2000; 2000DE-1019173.
 XX PA (EPIG-) EPIGENOMICS AG.
 XX PI Olek A, Piepenbrock C, Berlin K;
 XX WIPI; 2001-657177/75.
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 XX designed to detect single nucleotide polymorphisms and cytosine
 XX methylation status -
 XX Claim 1; SEQ ID 135836; 29pp + Sequence Listing; German.

CC This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation.
 CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 CC ABI00010-ABI82073 represent the oligomers described in the invention.
 CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.

SQ Sequence 13 BP; 2 A; 6 C; 0 G; 4 T; 1 other;
 Query Match 9.1%; Score 12.6; DB 1; Length 13;
 Best Local Similarity 92.3%; Pred. No. 1.2e+02;
 Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1721 GGAGATGGAGATT 1733
 Db 13 GGAGATGGAGATY 1

RESULT 93
 AAQ34483
 ID AAQ34483 standard; DNA; 15 BP.
 XX AC AAQ34483;
 XX DT 25-MAR-2003 (updated)
 XX DT 12-MAY-1993 (first entry)
 XX DE Oligo 9, a PCR primer for plant DHK-hydroxylating enzyme clone.
 XX KW Dihydrokaempferol; flavonoid; pigmentation; colour; amplification;
 XX KW cytochrome P450; ss.
 XX OS Synthetic.
 XX XX EP522880-A2.
 XX PD 13-JAN-1993.
 XX PF 10-JUL-1992; 92EP-0306379.
 XX PR 11-JUL-1991; 91AU-0007173.
 XX PR 17-FEB-1992; 92AU-0000923.
 XX PA (ITFL-) INT FLOWER DEV PTY LTD.
 XX PI Cornish EC, Holton TA, Kovacic P, Lester DR, Tanaka Y;
 XX WIPI; 1993-010688/02.
 XX Nucleic acid sequence encoding a dihydrokaempferol-hydroxylating
 XX enzyme - e.g. cytochrome P450 introduced into transgenic plants for
 XX controlling flavonoid pigmentation in plants and organisms
 XX Disclosure; Page 13; 66pp; English.
 XX CC The PCR primer may be used in PCR for amplification of
 XX petal cytochrome P450 homologues.
 XX CC See also AAQ34475-91.
 XX CC (Updated on 25-MAR-2003 to correct PN field.)
 XX SQ Sequence 15 BP; 2 A; 5 C; 3 G; 5 T; 0 other;

Query Match 8.9%; Score 12.4; DB 1; Length 15;
 Best Local Similarity 92.9%; Pred. No. 1.7e+02;
 Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1683 TGTCTCTCTCCAGCG 1696
 Db 2 TGTCTCTCTCCAGTG 15

RESULT 94
 AAQ56245
 ID AAQ56245 standard; cDNA; 15 BP.
 XX AC AAQ56245;
 XX DT 25-MAR-2003 (updated)
 XX DT 08-AUG-1994 (first entry)

```
XX PN US6107092-A.
XX XX
XX PD 22-AUG-2000.
XX XX
XX PF 29-MAR-1999; 99US-0280409.
XX XX
XX PR 29-MAR-1999; 99US-0280409.
XX XX
XX PA (ISIS-) ISIS PHARM INC.
XX PA (BAYU ) BAYLOR COLLEGE MEDICINE.
XX PI
XX PI Cowsett LM, Bennett CF, O'Malley BW;
XX DR WPI; 2000-586211/55.
XX XX
XX PT Antisense compounds targeted to steroid receptor RNA activator useful
XX PT for diagnosis, prophylaxis and treatment of diseases associated with
XX PT the steroid activator, such as infection, inflammation or tumor
XX PT formation -
XX PS Claim 3; Column 42; 47pp; English.
XX XX
XX CC The present sequence is one of a large number of antisense
XX CC oligonucleotides which is directed against one of four human steroid
XX CC receptor RNA activator (SRA) nucleic acid sequences. Two series of
XX CC antisense oligonucleotides were synthesised. The first series comprised
XX CC 8-30 oligodeoxynucleotides with a phosphorothioate backbone. The second
XX CC series comprised chimeric oligonucleotides composed of a central gap
XX CC region, consisting of ten 2'-deoxynucleotides, which was flanked on both
XX CC sides by four-nucleotide wings. The wings were composed of
XX CC 2'-methoxyethyl (2'-MOE) nucleotides. Both series contained the same
XX CC nucleotide sequences. The antisense compounds are useful for research,
XX CC diagnosis, treatment and prophylaxis to prevent or delay infection,
XX CC inflammation or tumour formation. Therapeutically the oligonucleotides
XX CC are highly safe and are effectively administered to humans.
XX SQ Sequence 18 BP; 3 A; 3 C; 7 G; 5 T; 0 other;
Query Match 9.2%; Score 12.8; DB 1; Length 18;
Best Local Similarity 87.5%; Pred. No. 2e+02;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1670 GCTGGAAACCTGGTAT 1685
DB 2 GCTGGAAACCTGGTAT 17
|||||
RESULT 90
AAA92642
ID AAA92642 standard; DNA; 18 BP.
AC AAA92642;
XX AC
XX DT 04-JAN-2001 (first entry)
XX DE Antisense oligonucleotide ISIS# 30365.
XX KW Human; SRA; steroid receptor RNA activator; cytostatic; antiinflammatory;
XX KW SRA inhibitor; cancer; infection; antisense oligonucleotide; ss.
XX OS Synthetic.
XX PN US6107092-A.
XX PD 22-AUG-2000.
XX PF 29-MAR-1999; 99US-0280409.
XX XX
XX PR 29-MAR-1999; 99US-0280409.
XX XX
XX PA (ISIS-) ISIS PHARM INC.
XX PA (BAYU ) BAYLOR COLLEGE MEDICINE.
```

```
XX PI Cowsett LM, Bennett CF, O'Malley BW;
XX DR WPI; 2000-586211/55.
XX XX
XX PT Antisense compounds targeted to steroid receptor RNA activator useful
XX PT for diagnosis, prophylaxis and treatment of diseases associated with
XX PT the steroid activator, such as infection, inflammation or tumor
XX PT formation -
XX PS Claim 3; Column 42; 47pp; English.
XX XX
XX CC The present sequence is one of a large number of antisense
XX CC oligonucleotides which is directed against one of four human steroid
XX CC receptor RNA activator (SRA) nucleic acid sequences. Two series of
XX CC antisense oligonucleotides were synthesised. The first series comprised
XX CC 8-30 oligodeoxynucleotides with a phosphorothioate backbone. The second
XX CC series comprised chimeric oligonucleotides composed of a central gap
XX CC region, consisting of ten 2'-deoxynucleotides, which was flanked on both
XX CC sides by four-nucleotide wings. The wings were composed of
XX CC 2'-methoxyethyl (2'-MOE) nucleotides. Both series contained the same
XX CC nucleotide sequences. The antisense compounds are useful for research,
XX CC diagnosis, treatment and prophylaxis to prevent or delay infection,
XX CC inflammation or tumour formation. Therapeutically the oligonucleotides
XX CC are highly safe and are effectively administered to humans.
XX SQ Sequence 18 BP; 3 A; 5 C; 6 G; 4 T; 0 other;
Query Match 9.2%; Score 12.8; DB 1; Length 18;
Best Local Similarity 87.5%; Pred. No. 2e+02;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1669 CAGCTGGAACCTGGT 1683
DB 2 CTGCTGGAAGCCTGGT 17
|||||
RESULT 91
ABF35838
ID ABF35838 standard; DNA; 13 BP.
AC ABF35838;
XX AC
XX DT 21-FEB-2002 (first entry)
XX DE Oligonucleotide SEQ ID NO 135835 for detecting SNP TSC0033923.
XX KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX OS Homo sapiens.
XX PN WO200177384-A2.
XX PD 18-OCT-2001.
XX PF 06-APR-2001; 2001WO-IB00713.
XX XX
XX PR 07-APR-2000; 2000DE-1019173.
XX XX
XX PA (EPIC-) EPIGENOMICS AG.
XX PI Olek A, Piepenbrock C, Berlin K;
XX DR WPI; 2001-657177/75.
XX XX
XX PT Set of oligonucleotides, useful for diagnosis and cell typing, is
XX PT designed to detect single nucleotide polymorphisms and cytosine
XX PT methylation status -
XX PS Claim 1; SEQ ID 135835; 29pp + Sequence Listing; German.
XX XX
```


XX ophthalmological; antiarthritic; antipsoriatic; virucide; osteopathic;
 KW vulnery; cancer; lymphoma; Ewing's sarcoma; melanoma; psoriasis;
 KW tumour angiogenesis; diabetic retinopathy; macular degeneration;
 KW neovascular glaucoma; myopic degeneration; arthritis; verruca vulgaris;
 KW angiofibroma of tuberosus sclerostis; port-wine stain; wound healing;
 KW Sturge Weber syndrome; Kippel-Trenaunay-Weber syndrome; leukaemia; ss;
 KW Osler-Weber-rendu syndrome; leukaemia; osteoporosis; DNazyme; inozyme;
 KW amberzyme.
 XX
 OS Homo sapiens.
 OS
 PN WO200188124-A2.
 XX
 PD 22-NOV-2001.
 XX
 PF 16-MAY-2001; 2001WO-US15866.
 XX
 PR 16-MAY-2000; 2000US-0572021.
 XX
 PA (RIBO-) RIBOZYME PHARM INC.
 PA (GLAX) GLAXO GROUP LTD.
 XX
 PI Jarvis T, Von Carlowitz I, McSwiggen JA, McLaughlin F, Randi AM;
 XX WPI; 2002-082995/11.
 DR
 XX
 XX Novel polynucleotide which down regulates expression of Ets-related
 PT gene, useful for treating cancer, diabetic retinopathy, macular
 PT degeneration, arthritis, psoriasis, verruca vulgaris and Sturge Weber
 PT syndrome -
 XX
 XX Claim 4; Page 84; 149pp; English.
 PS
 XX The invention relates to a nucleic acid molecule (I) which down regulates
 CC expression of an Ets-related gene (ERG). (I) is useful for treating
 CC conditions selected from cancer, lymphoma, Ewing's sarcoma, melanoma,
 CC tumour angiogenesis, diabetic retinopathy, macular degeneration, verruca
 CC neovascular glaucoma, myopic degeneration, arthritis, psoriasis, verruca
 CC vulgaris, angiofibroma of tuberosus sclerostis, port-wine stains, Sturge
 CC Weber syndrome, Kippel-Trenaunay-Weber syndrome, Osler-Weber-rendu
 CC syndrome, leukaemia, osteoporosis and wound healing. (I) is useful for
 CC treating a patient having a condition associated with the level of ERG,
 CC by contacting cells of the patient with (I) under conditions suitable for
 CC the treatment. The method comprises the use of one or more therapies
 CC under conditions suitable for the treatment. Leukaemia or tumour
 CC angiogenesis is treated by administering (I) to the patient in
 CC conjunction with one or more of other therapies such as radiation or
 CC chemotherapy treatment. (I) is useful for reducing ERG activity in a
 CC cell, by contacting the cell with (I). (I) is useful for cleaving RNA of
 CC ERG gene, by contacting (I) with RNA, in the presence of a divalent
 CC cation such as Mg²⁺. (I) is useful for diagnosis of conditions and
 CC diseases related to the expression of ERG, and as diagnostic tool to
 CC examine genetic drift and mutations within diseased cells or to detect
 CC the presence of ERG RNA in a cell. (I) is useful for specifically
 CC targeting genes that share homology with ERG gene or ERG fusion genes.
 CC ABK17354-ABK22719 represent nucleic acids, including antisense and
 CC enzymatic nucleic acid molecules which regulate expression of ERG, and
 CC related PCR primers of the invention.
 XX
 SQ Sequence 17 BP; 4 A; 3 C; 7 G; 3 U; 0 other;
 Query Match 9.2%; Score 12.8; DB 1; Length 17;
 Best Local Similarity 87.5%; Pred. No. 1.8e-02;
 Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 XX
 QY 1674 GAACCCCTGGTCTCC 1689
 DB ||||| ||||| ||||| ||||| |||||
 16 GAACCCCTGGTCTCC 1
 XX
 RESULT 86
 ABL31561/c
 ID ABL31561 standard; DNA; 17 BP.

XX ABL31561;
 AC
 XX 21-MAR-2002 (first entry)
 DT
 XX Human HLA genotyping oligonucleotide SEQ ID NO 1050.
 DE
 XX Human, human leukocyte antigen; HLA; genotype; polymorphism;
 KW immunogenetic; transplantation; genetic disease; ss.
 KW
 XX Homo sapiens.
 OS
 XX WO200192572-A1.
 PN
 XX 06-DEC-2001.
 PD
 XX 01-JUN-2001; 2001WO-JP04662.
 PF
 XX 01-JUN-2000; 2000JP-0164798.
 PR
 XX (NISN) NISSHINBO IND INC.
 PA (SYST-) SYSTEM RES INC.
 PA
 XX Inoko H, Kagiya T, Ichihara T, Matsumura Y, Moriya S, Nishida M;
 PI WPI; 2002-122074/16.
 XX
 DR Human leukocyte antigen (HLA) typing, useful for judging HLA genotypes
 XX of individuals e.g. by determining immunogenetic differences when
 PT transplanting between them -
 PT
 XX Claim 10; Page 292; 345pp; Japanese.
 PS
 XX The invention relates to a typing kit for judging human leukocyte antigen
 CC (HLA) genotype of a sample by hybridising a substrate on which 10-24 base
 CC oligonucleotides (ABL30512-ABL31809) originating in the sequences of
 CC genes e.g. belonging to HLA class I antigens on human genome and
 CC containing gene polymorphisms as alloantigens have been immobilised as
 CC primers for amplification of cleaved nucleic acids relating to gene
 CC polymorphisms. The method is useful for judging HLA genotypes of
 CC individuals by determining immunogenetic differences before transplanting
 CC between them, providing genetic information to decide compatibility of
 CC organ and tissue for transplantation e.g. of bone marrow, kidney, liver,
 CC pancreas, Langerhans islet in pancreas and cornea, susceptibility
 CC diagnosis of genetic diseases and identifying individuals.
 XX
 SQ Sequence 17 BP; 4 A; 3 C; 7 G; 3 T; 0 other;
 Query Match 9.2%; Score 12.8; DB 1; Length 17;
 Best Local Similarity 87.5%; Pred. No. 1.8e-02;
 Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 XX
 QY 1734 GGCTCCCAACTCTCTCC 1749
 DB ||||| ||||| ||||| ||||| |||||
 16 GGCTCTCAACTGCTCC 1
 XX
 RESULT 87
 AAQ91453/c
 ID AAQ91453 standard; DNA; 18 BP.
 XX
 AC AAQ91453;
 XX
 DT 25-MAR-2003 (updated)
 DT 30-AUG-1995 (first entry)
 XX
 XX Dysprosium (III) texaphyrin (DyTx) DNA conjugate.
 DE
 XX Dysprosium (III) texaphyrin (DyTx) DNA conjugate; liver disease;
 KW targeted intracellular mRNA hydrolysis; gene expression inhibition;
 KW hormone regulation; hydrolysis reagents; alky- phosphate esters;
 KW detoxification; ss.
 KW
 XX


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PT responsible for disorder-related traits
XX Example 21; Page 138; 714pp; English.
XX
XX This invention relates to the sequence of an isolated nucleic acid
XX molecule comprising at least one base variation from that of a known
XX human cytochrome P450 A1 (CYP450A1), cytochrome P450 A2 (CYP450A2),
XX cytochrome P450 2E1 (CYP4502E1), adrenergic receptor beta1 (ADBR1),
XX aryl hydrocarbon (AHR), aryl hydrocarbon receptor nuclear translocator
XX (ARNT), cathepsin S (CTSS), cyclooxygenase 2 (COX2), diazepam binding
XX inhibitor (DBI), epoxide hydroxylase 2 (EPHX2), 5-lipoxygenase
XX activating protein (FLAP), glutathione-S-transferase 12 (GST12),
XX histamine-N-methyl transferase (HNMT), NADPH quinone oxidoreductase 2 (NQO2),
XX -N-methyl transferase (NNMT), NADPH quinone oxidoreductase 2 (NQO2),
XX sulfotransferase thermolabile (STM), UDP-glucuronosyl transferase 2B4
XX (UGT2B4), UDP-glucuronosyl transferase 2B7 (UGT2B7), UDP-glucuronosyl
XX transferase (UGT2B15), uronase receptor (uPA), multidrug resistance
XX 1 (MDR1), lactoferrin (LTF), multidrug resistance associated
XX protein 3 (MRP3), orphan nuclear receptor (NRI12), or acetylcholine
XX muscarinic receptor 1, 2, 3, 4, or 5 (CHMR1, CHMR2, CHMR3, CHMR4 or
XX CHMR5) sequence. The polymorphisms in the human genes cited in the
XX invention are useful as genetic linkage markers for locating and
XX characterising the genes that are responsible for specific traits within
XX the genome and eventually identifying the genes responsible for a
XX variety of disorder-related traits as a result of their e.g.,
XX overexpression, constitutive expression, mutation or underexpression,
XX which may be used in diagnosing and/or treating the disorders. The
XX nucleic acid molecules comprising the polymorphic sequences contained
XX in CYP450A1, CYP450A2, CYP4502E1, ARNT, EPHX2, GST12, NNMT, NQO2,
XX NRI12, STM, UGT2B4, UGT2B7, UGT2B15, AHR, MDR1 and/or MDR3 are useful
XX for screening individuals for altered drug metabolism. The polymorphic
XX sequences contained in CYP450A1, CYP450A2, AHR, MDR1 and/or MDR3 may
XX also be used to screen individuals for susceptibility to cancer.
XX Polymorphic sequences in ADRB1 or CHMR2 are used to screen for altered
XX cardiovascular function, in DBI or CHMR1 for altered central nervous system
XX colorectal tumours, in DBI or CHMR1 for altered pulmonary, immunological or
XX function, in FLAP and HNMT for altered serine protease activity in
XX haematological function, in KUK2 for altered serine protease activity in
XX the prostate, in LTF for altered immunological or haematological
XX function, in CHMR3, CHMR4 or CHMR5 for altered central and peripheral
XX nervous system function. The present sequence represents a PCR
XX primer used to amplify the sequences of the invention.
XX
XX Sequence 17 BP; 5 A; 5 C; 4 G; 3 T; 0 other;
XX
XX Query Match 9.2%; Score 12.8; DB 1; Length 17;
XX Best Local Similarity 87.5%; Pred. No. 1.8e+02;
XX Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
XX QY 1670 GCTGGAACCCGCTGCT 1685
XX ||||| |||||
XX Db 17 GCTGGAACCCGCTGCT 2
XX
XX RESULT 84
XX ABK17683/C
XX ID ABK17683 standard; RNA; 17 BP.
XX AC ABK17683;
XX XX
XX 09-APR-2002 (first entry)
XX
XX Human ERG hammerhead ribozyme target sequence, Seq ID No 330.
XX
XX Human; hammerhead ribozyme; cytostatic; antitumour; antidiabetic;
XX ophthalmological; antiarthritic; antipsoriatic; virucide; osteopathic;
XX vulvular; cancer; lymphoma; Ewing's sarcoma; melanoma; psoriasis;
XX tumour angiogenesis; diabetic retinopathy; macular degeneration;
XX neovascular glaucoma; myopic degeneration; arthritis; verruca vulgaris;
XX angiofibroma of tuberous sclerosis; port-wine stain; wound healing;
XX Sturge Weber syndrome; Kippel-Trenaunay-Weber syndrome; leukaemia; ss;
XX Osler-Weber-rendu syndrome, leukaemia; osteoporosis; DNAzyme; inczyne;
XX amberzyme.
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XX Homo sapiens.
XX WO2001188124-A2.
XX 22-NOV-2001.
XX 16-MAY-2001; 2001WO-US15866.
XX 16-MAY-2000; 2000US-0572021.
XX (RIBO-) RIBOZYME PHARM INC.
XX (GLAX) GLAXO GROUP LTD.
XX Jarvis T, Von Carlowitz I, McSwiggen JA, McLaughlin F, Randi AM;
XX WFI; 2002-082995/11.
XX Novel polynucleotide which down regulates expression of Ets-related
XX gene, useful for treating cancer, diabetic retinopathy, macular
XX degeneration, arthritis, psoriasis, verruca vulgaris and Sturge Weber
XX syndrome.
XX Claim 4; Page 54; 149pp; English.
XX
XX The invention relates to a nucleic acid molecule (I) which down regulates
XX expression of an Ets-related gene (ERG). (I) is useful for treating
XX conditions selected from cancer, lymphoma, Ewing's sarcoma, melanoma,
XX tumour angiogenesis, diabetic retinopathy, macular degeneration,
XX neovascular glaucoma, myopic degeneration, arthritis, psoriasis, verruca
XX vulgaris, angiofibroma of tuberous sclerosis, port-wine stains, Sturge
XX Weber syndrome, Kippel-Trenaunay-Weber syndrome, Osler-Weber-rendu
XX syndrome, leukaemia, osteoporosis and wound healing. (I) is useful for
XX treating a patient having a condition associated with the level of ERG,
XX by contacting cells of the patient with (I) under conditions suitable for
XX the treatment. The method comprises the use of one or more therapies
XX under conditions suitable for the treatment. Leukaemia or tumour
XX angiogenesis is treated by administering (I) to the patient in
XX conjunction with one or more of other therapies such as radiation or
XX chemotherapy treatment. (I) is useful for reducing ERG activity in a
XX cell, by contacting the cell with (I). (I) is useful for cleaving RNA of
XX ERG gene, by contacting (I) with RNA, in the presence of a divalent
XX cation such as Mg2+. (I) is useful for diagnosis of conditions and
XX diseases related to the expression of ERG, and as diagnostic tool to
XX examine genetic drift and mutations within diseased cells or to detect
XX the presence of ERG RNA in a cell. (I) is useful for specifically
XX targeting genes that share homology with ERG gene or ERG fusion genes.
XX ABK17354-ABK22719 represent nucleic acids, including antisense and
XX enzymatic nucleic acid molecules which regulate expression of ERG, and
XX related PCR primers of the invention.
XX
XX Sequence 17 BP; 3 A; 3 C; 7 G; 4 U; 0 other;
XX
XX Query Match 9.2%; Score 12.8; DB 1; Length 17;
XX Best Local Similarity 87.5%; Pred. No. 1.8e+02;
XX Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
XX QY 1674 GAACCTGCTGCTGCC 1689
XX ||||| |||||
XX Db 17 GAACCTGCTGCTGCC 2
XX
XX RESULT 85
XX ABK18660/C
XX ID ABK18660 standard; RNA; 17 BP.
XX XX
XX AC ABK18660;
XX XX
XX 09-APR-2002 (first entry)
XX
XX Human ERG G-cleaver ribozyme target sequence Seq ID No 1307.
XX
XX Human; hammerhead ribozyme; cytostatic; antitumour; antidiabetic;
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PI Parry T, Reynolds M, Sweedler D, Thompson J, Workman CT;
 XX WPI; 1999-009494/01.
 XX Identifying new catalytic nucleic acid that modulates selected
 PT processes - especially ribozymes that cleave Raf RNA for treating
 PT cancer, restenosis, and also new ribozymes and modified nucleoside
 PT triphosphates used as antiviral agents and synthons
 XX
 PS Claim 177; Page 147; 259pp; English.
 CC A method has been developed for the identification of a nucleic acid
 CC capable of modulating a process in a biological system. The method
 CC comprises: (a) introducing into the system a random library of nucleic
 CC acid catalysts (NAC) having a substrate binding domain (SBD), comprising
 CC a random sequence, and a catalytic domain (CD); and (b) identifying NAC
 CC in systems where modulation has occurred and/or determining the sequence
 CC of at least part of the SBDs in such systems. Nucleic acid molecules
 CC with endonuclease activity and catalytic activity, from the present
 CC invention, are used to modulate gene expression in plant and mammalian
 CC cells and to cleave target nucleic acid, particularly for treating
 CC systemic diseases caused by specific RNA, e.g. cancer, inflammation,
 CC psoriasis, non-hepatic ascites and infection. They may also be used to
 CC detect genetic drift and mutations in diseased cells and to determine
 CC c-raf RNA. Specifically NACs with RNA-cleaving activity that modulate
 CC expression of the Raf gene, are used to treat cancer, restenosis,
 CC psoriasis or rheumatoid arthritis, or generally any condition associated
 CC with the level of c-raf. Introduction of sugar/phosphate modifications
 CC increases stability against nuclease and activity. AAV90922 to AAV93877
 CC represent NACs that can be used in the method, specifically for
 CC modulating the expression of a Raf gene.
 XX
 SQ Sequence 17 BP; 2 A; 5 C; 3 G; 7 U; 0 other;

Query Match 9.2%; Score 12.8; DB 1; Length 17;
 Best Local Similarity 87.5%; Pred. No. 1.8e+02;
 Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1641 TGTACAGAGGCAAG 1656
 DB 16 TGTACAGAGGCAAG 1

RESULT 82
 AAA79844
 ID AAA79844 standard; DNA; 17 BP.
 XX
 AC AAA79844;
 XX
 DT 20-NOV-2000 (first entry)
 XX
 DE Hepatitis B virus related oligonucleotide probe #107.
 XX
 KW Hepatitis B virus; HBV; Hepatitis A virus; HAV; probe; detection;
 KW mutation; high-density gene chip; ss.
 XX
 OS Hepatitis B virus.
 XX
 PN CN1252452-A.
 XX
 PD 10-MAY-2000.
 XX
 PF 24-SEP-1999; 99CN-0114460.
 XX
 PR 24-SEP-1999; 99CN-0114460.
 XX
 PA (UYDO-) UNIV DONGNAN.
 XX
 PI Sun X, Lu Z, Wang Y;
 XX
 DR WPI; 2000-443233/39.
 XX
 PT High-density gene chip making process -

XX
 PS Example 1; Fig 15; 19pp; Chinese.
 XX
 CC The present invention describes a method which comprises making a high-
 CC density gene chip, specifically for making high-density micro-array of
 CC oligonucleotide probes. An oligonucleotide probe selecting process to
 CC seek preferentially length variable and coverage variable probes is
 CC provided to ensure identical cross melting temperature of probes to the
 CC maximum limit, and this can make the cross control of gene chip
 CC relatively simple and raise the reliability of the gene chip detecting
 CC results. The process proposes a specific probe selection method for
 CC detecting target sequence directly, detecting mutation in both specific
 CC and non-specific sites and a probe overall arrangement scheme. AAA9738
 CC to AAA98201 represent oligonucleotide probe sequences which are used in
 CC examples from the present invention.
 XX
 SQ Sequence 17 BP; 4 A; 1 C; 10 G; 2 T; 0 other;

Query Match 9.2%; Score 12.8; DB 1; Length 17;
 Best Local Similarity 87.5%; Pred. No. 1.8e+02;
 Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1713 AGGAGTACGGAGATGG 1728
 DB 1 AGGAGTACGGAGATGG 16

RESULT 83
 ABS97987/c
 ID ABS97987 standard; DNA; 17 BP.
 XX
 AC ABS97987;
 XX
 DT 23-DEC-2002 (first entry)
 XX
 DE Human urokinase gene (uPA) PCR primer #2.
 XX
 KW Human; ss; primer; cytochrome P450 A1; CYP450A1; UGT2B4; MDR1; PCR;
 KW cytochrome P450 A2; CYP450A2; cytochrome P450 02E; CYP45002E1; LTP;
 KW adrenergic receptor beta1; ADRB1; aryl hydrocarbon; AHR; MRP3; NR1I2;
 KW aryl hydrocarbon receptor nuclear translocator; ARNT; cathepsin S; CTSS;
 KW cyclooxygenase 2; COX2; diazepam binding inhibitor; DBI; haematological;
 KW epoxide hydroxylase 2; EPHX2; 5-lipoxygenase activating protein; FLAP;
 KW glutathione-S-transferase 12; GSTI2; histamine-N-methyl transferase;
 KW HNMT; kallikrein 2; KLK2; nicotinamide-N-methyl transferase; NNMT;
 KW NADEH quinone oxidoreductase 2; NQO2; sulfotransferase thermolabile;
 KW STM; UDP-glucuronosyl transferase 2B4; UDP-glucuronosyl transferase 2B7;
 KW UGT2B7; UDP-glucuronosyl transferase; UGT2B15; urokinase receptor; uPA;
 KW multidrug resistance 1; lactoferrin; orphan nuclear receptor;
 KW multidrug resistance associated protein 3; cancer; prostate;
 KW acetylcholine muscarinic receptor; CHMR1; CHMR2; CHMR3; CHMR4; CHMR5;
 KW altered drug metabolism; cardiovascular function; colorectal tumour;
 KW central nervous system; pulmonary; immunological.
 XX
 OS Homo sapiens.
 XX
 PN WO200257410-A2.
 XX
 PD 25-JUL-2002.
 XX
 PF 28-NOV-2001; 2001WO-US44838.
 XX
 PR 28-NOV-2000; 2000US-0724389.
 XX
 PA (DNAS-) DNA SCI LAB INC.
 XX
 PI Guida M, Hall J;
 XX
 DR WPI; 2002-698522/75.
 XX
 PT Isolated nucleic acid molecules having polymorphisms in known human
 PT genes e.g. cytochrome p450 and cathepsin S useful as genetic linkage
 PT markers for locating, identifying and characterizing the genes

CC acid catalysts (NAC) having a substrate binding domain (SBD), comprising
 CC a random sequence, and a catalytic domain (CD); and (b) identifying NAC
 CC in systems where modulation has occurred and/or determining the sequence
 CC of at least part of the SBDs in such systems. Nucleic acid molecules
 CC with endonuclease activity and catalytic activity, from the present
 CC invention, are used to modulate gene expression in plant and mammalian
 CC cells and to cleave target nucleic acid, particularly for treating
 CC systemic diseases caused by specific RNA, e.g. cancer, inflammation,
 CC psoriasis, non-hepatic ascites and infection. They may also be used to
 CC detect genetic drift and mutations in diseased cells and to determine
 CC c-raf RNA. Specifically NACs with RNA-cleaving activity that modulate
 CC expression of the Raf gene, are used to treat cancer, restenosis,
 CC psoriasis or rheumatoid arthritis, or generally any condition associated
 CC with the level of c-raf. Introduction of sugar/phosphate modifications
 CC increases stability against nuclease and activity. AAV90922 to AAV93877
 CC represent NACs that can be used in the method, specifically for
 CC modulating the expression of a Raf gene.

XX
 SQ Sequence 17 BP; 1 A; 5 C; 5 G; 5 U; 0 other;

Query Match 9.2%; Score 12.8; DB 1; Length 17;
 Best Local Similarity 87.5%; Pred. No. 1.8e+02;
 Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1667 ACAGCTGGAAACCTGG 1682
 ||||| |||||
 Db 16 ACAGCGGAAACCTGG 1

RESULT 80
 AAV93413/c

ID AAV93413 standard; RNA; 17 BP.
 AC AAV93413;
 XX
 XX 18-FEB-1999 (first entry)
 DT
 DE Human B-raf substrate nucleotide position 833.

XX Human; C-raf; A-raf; B-raf; hammerhead ribozyme; hairpin ribozyme;
 KW target; substrate; catalyst; modulation; expression; Raf gene;
 KW delivery; screening; identification; synthesis; deprotection;
 KW purification; cancer; inflammation; psoriasis; non-hepatic ascites;
 KW infection; genetic drift; restenosis; rheumatoid arthritis; ss.
 XX
 OS Homo sapiens.
 XX
 XX WO9850530-A2.
 XX
 PD 12-NOV-1998.
 XX
 PF 05-MAY-1998; 98WO-US09249.
 XX
 XX 19-DEC-1997; 97US-0068212.
 XX
 PR 09-MAY-1997; 97US-0046059.
 PR
 PR 09-JUN-1997; 97US-0049002.
 PR
 PR 03-JUL-1997; 97US-0051718.
 PR
 PR 22-AUG-1997; 97US-0056808.
 PR
 PR 02-OCT-1997; 97US-0061321.
 PR
 PR 02-OCT-1997; 97US-0061324.
 PR
 PR 05-NOV-1997; 97US-0064866.
 XX
 XX (RIBO-) RIBOZYME PHARM INC.
 XX
 XX Beaudry A, Beigelman L, Bellon L, Burgin A, Jarvis T;
 PI Karpeisky A, Kisich K, Matulic-Adamic J, McSwiggen JA;
 PI Parry T, Reynolds M, Sweedler D, Thompson J, Workman CT;
 XX
 DR WPI; 1999-009494/01.
 XX
 XX Identifying new catalytic nucleic acid that modulates selected
 PT processes - especially ribozymes that cleave Raf RNA for treating
 PT cancer, restenosis, and also new ribozymes and modified nucleoside

PT triphosphates used as antiviral agents and synthons
 XX
 PS Claim 177; Page 167; 259pp; English.
 XX
 CC A method has been developed for the identification of a nucleic acid
 CC capable of modulating a process in a biological system. The method
 CC comprises: (a) introducing into the system a random library of nucleic
 CC acid catalysts (NAC) having a substrate binding domain (SBD), comprising
 CC a random sequence, and a catalytic domain (CD); and (b) identifying NAC
 CC in systems where modulation has occurred and/or determining the sequence
 CC of at least part of the SBDs in such systems. Nucleic acid molecules
 CC with endonuclease activity and catalytic activity, from the present
 CC invention, are used to modulate gene expression in plant and mammalian
 CC cells and to cleave target nucleic acid, particularly for treating
 CC systemic diseases caused by specific RNA, e.g. cancer, inflammation,
 CC psoriasis, non-hepatic ascites and infection. They may also be used to
 CC detect genetic drift and mutations in diseased cells and to determine
 CC c-raf RNA. Specifically NACs with RNA-cleaving activity that modulate
 CC expression of the Raf gene, are used to treat cancer, restenosis,
 CC psoriasis or rheumatoid arthritis, or generally any condition associated
 CC with the level of c-raf. Introduction of sugar/phosphate modifications
 CC increases stability against nuclease and activity. AAV90922 to AAV93877
 CC represent NACs that can be used in the method, specifically for
 CC modulating the expression of a Raf gene.

XX
 SQ Sequence 17 BP; 1 A; 5 C; 5 G; 5 U; 0 other;

Query Match 9.2%; Score 12.8; DB 1; Length 17;
 Best Local Similarity 87.5%; Pred. No. 1.8e+02;
 Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1667 ACAGCTGGAAACCTGG 1682
 ||||| |||||
 Db 17 ACAGCGGAAACCTGG 2

RESULT 81
 AAV91007/c

ID AAV91007 standard; RNA; 17 BP.
 AC AAV91007;
 XX
 XX 18-FEB-1999 (first entry)
 DT
 DE Human C-raf target site nucleotide position 582.
 XX
 XX Human; C-raf; A-raf; B-raf; hammerhead ribozyme; hairpin ribozyme;
 KW target; substrate; catalyst; modulation; expression; Raf gene;
 KW delivery; screening; identification; synthesis; deprotection;
 KW purification; cancer; inflammation; psoriasis; non-hepatic ascites;
 KW infection; genetic drift; restenosis; rheumatoid arthritis; ss.
 XX
 OS Homo sapiens.
 XX
 XX WO9850530-A2.
 XX
 PD 12-NOV-1998.
 XX
 PF 05-MAY-1998; 98WO-US09249.
 XX
 XX 19-DEC-1997; 97US-0068212.
 XX
 PR 09-MAY-1997; 97US-0046059.
 PR
 PR 09-JUN-1997; 97US-0049002.
 PR
 PR 03-JUL-1997; 97US-0051718.
 PR
 PR 22-AUG-1997; 97US-0056808.
 PR
 PR 02-OCT-1997; 97US-0061321.
 PR
 PR 02-OCT-1997; 97US-0061324.
 PR
 PR 05-NOV-1997; 97US-0064866.
 XX
 XX (RIBO-) RIBOZYME PHARM INC.
 XX
 XX Beaudry A, Beigelman L, Bellon L, Burgin A, Jarvis T;
 PI Karpeisky A, Kisich K, Matulic-Adamic J, McSwiggen JA;

CC of nucleic acid molecules from the present invention.

XX Sequence 17 BP; 0 A; 4 C; 7 G; 6 U; 0 other;
SQ Query Match 9.2%; Score 12.8; DB 1; Length 17;
Best Local Similarity 87.5%; Pred. No. 1.9e+02;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1646 CAGAAGCGCAAGCCCA 1661
Db 17 CAGAAGCGCAAGCGCCA 2

RESULT 78
AAV07298/C
ID AAV07298 standard; DNA; 17 BP.
XX
XX AAV07298;
AC
XX 14-AUG-1998 (first entry)
DT
XX Metallotexaphyrin-oligonucleotide conjugate #12.
DE
XX Metallotexaphyrin; dysprosium; europium; conjugate; RNase H;
KW antisense therapy; ss.
XX
XX Synthetic.

XX Key Location/Qualifiers
FH modified_base 1
FT /*tag= a
FT /mod_base=
FT /note= "DyTxNH-(CH2)6-PO4-cytosine, where DyTx is
FT dysprosium (III) texaphyrin"
XX
XX US5763172-A.
XX
XX 09-JUN-1998.
XX
XX 07-JUN-1995; 95US-0486962.
XX
XX 07-JUN-1995; 95US-0485581.
XX 21-JAN-1992; 92US-0822964.
XX 09-JUN-1993; 93US-0075123.
XX 14-APR-1994; 94US-0227370.
XX 09-JUN-1994; 94WO-US06284.
XX 26-MAY-1995; 95US-0452261.
XX 07-JUN-1995; 95US-0486962.
XX (PHAR-) PHARMACYCLICS INC.
XX (TEXA) UNIV TEXAS SYSTEM.

XX Dow WC, Magda D, Miller RA, Sessler JL, Wright M;
XX WPI; 1998-347306/30.
XX
XX Enhancing therapeutic activity of oligonucleotides in cells - using
XX conjugate comprising metallotexaphyrin, which hydrolyses phosphate
XX ester bonds of RNA, and oligo-nucleotide, which binds to targeted
XX RNA
XX
XX Example 6; Figure 5; 34pp; English.

XX The invention relates to a method of enhancing the therapeutic activity
XX of oligonucleotides in cells. It comprises contacting a targeted
XX intracellular RNA in a cell with a metallotexaphyrin-oligonucleotide
XX conjugate. The contact is carried out under physiological conditions for
XX a time sufficient to hydrolyse the phosphate ester bond of the targeted
XX RNA. The metallotexaphyrin of the conjugate has catalytic activity for
XX phosphate ester bond hydrolysis. The oligonucleotide of the conjugate
XX has complementary binding affinity to the targeted RNA. The conjugate
XX may be used in antisense therapies for treating, e.g. cancer, viral
XX infections, autoimmune diseases and restenosis. The conjugate may also

CC be used as hydrolysis reagents for the detoxification of di- and
CC trialkyl phosphate esters, which are used in solvents, insecticides and
CC chemical nerve gases. The metallotexaphyrin complex enhances the
CC therapeutic activity of the oligonucleotide, not only by facilitating
CC cellular uptake of the oligonucleotide but also by hydrolysing target
CC RNA within the cell, independent of RNase H. Attachment to the complex
CC may also cause the oligonucleotide to take on some of the pharmacodynamic
CC an biodistribution properties of the texaphyrin, such as selective
CC localisation in tumours. The present sequence represents a metallo-
CC texaphyrin-oligonucleotide conjugate.

XX Sequence 17 BP; 1 A; 3 C; 8 G; 5 T; 0 other;

Query Match 9.2%; Score 12.8; DB 1; Length 17;
Best Local Similarity 87.5%; Pred. No. 1.9e+02;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1655 AGCACCAGGCTCAG 1670
Db 16 AACACCGGCTCAG 1

RESULT 79
AAV93414/C
ID AAV93414 standard; RNA; 17 BP.
XX
XX AAV93414;
AC
XX 18-FEB-1999 (first entry)
DT
XX Human B-raf substrate nucleotide position 834.
DE
XX Human; C-raf; A-raf; B-raf; hammerhead ribozyme; hairpin ribozyme;
KW target; substrate; catalyst; modulation; expression; Raf gene;
KW delivery; screening; identification; synthesis; deprotection;
KW purification; cancer; inflammation; psoriasis; non-hepatic ascites;
KW infection; genetic drift; restenosis; rheumatoid arthritis; ss.
XX
XX Homo sapiens.

XX WO9850530-A2.
XX 12-NOV-1998.
XX
XX 05-MAY-1998; 98WO-US09249.
XX
XX 19-DEC-1997; 97US-0068212.
XX 09-MAY-1997; 97US-0046059.
XX 09-JUN-1997; 97US-0049002.
XX 03-JUL-1997; 97US-0051718.
XX 22-AUG-1997; 97US-0056808.
XX 02-OCT-1997; 97US-0061321.
XX 02-OCT-1997; 97US-0061324.
XX 05-NOV-1997; 97US-0064866.

XX (RIBO-) RIBOZYME PHARM INC.

XX Beaudry A, Beigelman L, Beillon L, Burgin A, Jarvis T;
XX Karpeisky A, Kisich K, Matulic-Adamic J, McSwiggen JA;
XX Parry T, Reynolds M, Sweedler D, Thompson J, Workman CT;
XX WPI; 1999-009494/01.

XX Identifying new catalytic nucleic acid that modulates selected
XX processes - especially ribozymes that cleave Raf RNA for treating
XX cancer, restenosis, and also new ribozymes and modified nucleoside
XX triphosphates used as antiviral agents and synthons
XX
XX Claim 177; Page 167; 259pp; English.

XX A method has been developed for the identification of a nucleic acid
XX capable of modulating a process in a biological system. The method
XX comprises: (a) introducing into the system a random library of nucleic

CC refers to the position of the cleavage site in full length CETP. The
 CC ribozyme then binds to 5 nucleotides either side of this site. The
 CC ribozymes are able to cleave mRNA from the gene encoding CETP, thereby
 CC blocking synthesis and/or expression of the mRNA. By inhibiting CETP,
 CC the reverse cholesterol transport (RCT) pathway can be inhibited (or
 CC eliminated) thereby preventing the reduction in size density of the high
 CC density lipoproteins (HDL), prolonging HDL half life, and therefore
 CC increasing HDL levels. The ribozymes can be used to treat conditions
 CC associated with abnormal levels of CETP, specifically atherosclerosis,
 CC familial hypercholesterolaemia, peripheral vascular disease,
 CC dyslipidaemia, hypertriglyceridaemia, hypodyslipoproteinaemia,
 CC vascular complications of diabetes, transplant, atherectomy and
 CC angioplasty restenosis. By inhibiting CETP, the levels of HDL and low
 CC density lipoproteins (LDL), and the HDL:LDL ratio are favourably altered
 CC (a decrease in LDL levels, and a corresponding increase in HDL levels).
 CC The HH ribozymes can also be used diagnostically to study genetic drift
 CC and mutations in diseased cells, and to detect CETP mRNA. As the HH
 CC ribozymes target specific regions of the CETP gene, they have low
 CC non-specific activity.

XX
 SQ Sequence 15 BP; 3 A; 6 C; 3 G; 3 U; 0 other;

Query Match 9.4%; Score 13; DB 1; Length 15;
 Best Local Similarity 76.9%; Pred. No. 1.3e+02;
 Matches 10; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1733 TGGCTCCCACTC 1745
 Db 3 UGGCUCCCAACUC 15

RESULT 76

AAQ91452/c
 ID AAQ91452 standard; DNA; 17 BP.

XX AC AAQ91452;

XX 25-MAR-2003 (updated)

DT 30-AUG-1995 (first entry)

XX Dysprosium (III) texaphyrin (DyTx) DNA conjugate.

XX Dysprosium (III) texaphyrin (DyTx) DNA conjugate; liver disease;
 XX targeted intracellular mRNA hydrolysis; gene expression inhibition;
 XX hormone regulation; hydrolysis reagents; alkyl phosphate esters;
 XX detoxification; ss.

XX Synthetic.

XX Key Location/Qualifiers

XX modified_base 1

XX /*tag= a

XX /mod_base= OTHER

XX /note= "DyTx-NH(CH2)6-PO4-cytosine"

XX WO9429316-A2.

XX 22-DEC-1994.

XX 09-JUN-1994; 94WO-US06284.

XX 09-JUN-1993; 93US-0075123.

XX 14-APR-1994; 94US-0227370.

XX (PHAR-) PHARMACYCLICS INC.

XX (TEXA) UNIV TEXAS SYSTEM.

XX Dow WC, Hemmi GW, Iverson B, Kral VA, Magda D;

XX PI Miller RA, Mody T, Ross KL, Sessler JL, Smith DA;

XX PI Wright M;

XX WPI; 1995-036382/05.

XX

PT Texaphyrin metal complex mediated ester hydrolysis - esp. useful
 PT for targeted intracellular hydrolysis of mRNA and for inhibiting
 PT gene expression
 XX
 PS Disclosure; Fig 21; 125pp; English.

XX AAQ91451-Q91457 are texaphyrin lanthanide metal DNA conjugates, which
 CC are esp. useful for the targeted intracellular hydrolysis of mRNA;
 CC inhibiting gene expression. They may also be used for the treatment
 CC of liver disease, as hormone regulation agents and as hydrolysis
 CC reagents for the detoxification of alkyl phosphate esters.
 CC (Updated on 25-MAR-2003 to correct PN field.)

XX SQ Sequence 17 BP; 1 A; 3 C; 8 G; 5 T; 0 other;

Query Match 9.2%; Score 12.8; DB 1; Length 17;

Best Local Similarity 87.5%; Pred. No. 1.8e+02;

Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1655 AGCACCAGGCTCAG 1670

Db 16 AACACCCGCTCAG 1

RESULT 77

AAX75159/c

ID AAX75159 standard; RNA; 17 BP.

XX AC AAX75159;

XX 28-JUL-1999 (first entry)

XX Mouse flt-1 VEGF receptor hammerhead ribozyme substrate #687.

XX Vascular endothelial growth factor receptor; VEGF receptor; flt-1;

XX flk-1; KDR; hammerhead ribozyme; hairpin ribozyme; cleavage;

XX tumour angiogenesis; psoriasis; rheumatoid arthritis; ocular disease;

XX fms-like tyrosine kinase 1; kinase insert domain containing receptor;

XX foetal liver kinase 1; ss.

XX Mus sp.

XX WO9715662-A2.

XX 01-MAY-1997.

XX 25-OCT-1996; 96WO-US17480.

XX 11-JAN-1996; 96US-0584040.

XX 26-OCT-1995; 95US-0005974.

XX (CHIR) CHIRON CORP.

XX (RIBO-) RIBOZYME PHARM INC.

XX Escobedo J, McSwiggen J, Pavco P, Stinchcomb D;

XX WPI; 1997-259017/23.

XX Nucleic acid molecule modulating VEGF receptor(s) gene expression or
 PT mRNA stability - useful for treating e.g. tumour angiogenesis,
 PT psoriasis, rheumatoid arthritis, etc., in a human patient

XX Claim 4; Page 175; 218pp; English.

XX The present invention describes nucleic acid molecules which modulate
 CC the synthesis, expression and/or stability of a mRNA encoding 1 or more
 CC receptors of vascular endothelial growth factor (VEGF). A patient
 CC (preferably human) having a condition associated with the level of the
 CC fms-like tyrosine kinase 1 (flt-1), kinase insert domain containing
 CC receptor (KDR) and/or foetal liver kinase 1 (flk-1) (e.g. tumour
 CC angiogenesis, ocular diseases, psoriasis and rheumatoid arthritis) can
 CC be treated by administering the nucleic acid molecule or the expression
 CC vector to the patient. AAX67275 to AAX75752 represent specific examples

PF 06-APR-2001; 2001WO-IB00713.
 XX
 PR 07-APR-2000; 2000DE-1019173.
 XX
 PA (EPIG-) EPIGENOMICS AG.
 XX
 PI Olek A, Piepenbrock C, Berlin K;
 XX
 DR WPI; 2001-657177/75.
 XX
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single nucleotide polymorphisms and cytosine
 PT methylation status -
 XX
 XX Claim 1; SEQ ID 116651; 29pp + Sequence Listing; German.
 XX
 XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP).
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation.
 CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 CC ABH00010-ABH82073 represent the oligomers described in the invention.
 CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.
 XX
 XX Sequence 13 BP; 3 A; 0 C; 8 G; 2 T; 0 other;
 XX
 XX Query Match 9.4%; Score 13; DB 1; Length 13;
 CC Best Local Similarity 100.0%; Pred. No. 1e+02;
 CC Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 XX
 QY 1739 CCAACTCCTCCCT 1751
 Db 13 CCAACTCCTCCCT 1
 RESULT 74
 ABF16655
 ID ABF16655 standard; DNA; 13 BP.
 XX
 AC ABF16655;
 XX
 XX 21-FEB-2002 (first entry)
 DT
 DE Oligonucleotide SEQ ID NO 116652 for detecting SNP TSC0029189.
 XX
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX
 OS Homo sapiens.
 XX
 XX WO200177384-A2.
 PN
 XX 18-OCT-2001.
 PD
 XX 06-APR-2001; 2001WO-IB00713.
 PF
 XX 07-APR-2000; 2000DE-1019173.
 PR
 XX (EPIG-) EPIGENOMICS AG.
 PA
 XX Olek A, Piepenbrock C, Berlin K;
 PI
 XX WPI; 2001-657177/75.
 DR
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single nucleotide polymorphisms and cytosine
 PT methylation status -

XX Claim 1; SEQ ID 116652; 29pp + Sequence Listing; German.
 XX
 XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP).
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation.
 CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 CC ABH00010-ABH82073 represent the oligomers described in the invention.
 CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.
 XX
 XX Sequence 13 BP; 2 A; 8 C; 0 G; 3 T; 0 other;
 XX
 XX Query Match 9.4%; Score 13; DB 1; Length 13;
 CC Best Local Similarity 100.0%; Pred. No. 1e+02;
 CC Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 XX
 QY 1739 CCAACTCCTCCCT 1751
 Db 1 CCAACTCCTCCCT 13
 RESULT 75
 AAT50323
 ID AAT50323 standard; RNA; 15 BP.
 XX
 AC AAT50323;
 XX
 XX 11-MAR-1997 (first entry)
 DT
 DE Rabbit CETP HH ribozyme target sequence #1580.
 XX
 XX Hammerhead ribozyme; cholesterol ester transfer protein; mRNA cleavage;
 KW neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;
 KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;
 KW familial hypercholesterolaemia; dyslipidaemia; hypocalphalipoproteinaemia;
 KW peripheral vascular disease; hyperbetaipoproteinaemia; RCT; inhibitor;
 KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; rabbit;
 KW LDL; ss.
 XX
 OS Cryptolagus cuniculus.
 XX
 XX WO9620279-A1.
 PN
 XX 04-JUL-1996.
 PD
 XX 11-DEC-1995; 95WO-US16000.
 PF
 XX 23-DEC-1994; 94US-0363240.
 PR
 XX (RIBO-) RIBOZYME PHARM INC.
 PA (WARN) WARNER LAMBERT CO.
 XX
 XX Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;
 PI
 XX WPI; 1996-321852/32.
 DR
 XX New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA
 PT - useful for preventing or treating initial development, progression
 PT or regression of vascular diseases, esp. familial
 PT hypercholesterolaemia
 XX
 XX Claim 4; Page 43; 72pp; English.
 PS
 XX AAT50138-T50359 represent target sequences for the rabbit cholesterol
 CC ester transfer protein (CETP) hammerhead (HH) ribozymes (see
 CC AAT50360-T50546). CETP is a 74 kD glycoprotein that facilitates neutral
 CC lipid transfer between plasma lipoproteins. The numbering of the targets

QY	1720	CGGAGATGGAGATTGGCT	1737
DB	18	CTGAGATGGAGTTGGCT	1
RESULT 71			
ABC47950			
ID	ABC47950	standard; DNA; 13 BP.	
XX	AC	ABC47950;	
XX	AC		
DT	21-FEB-2002	(first entry)	
DE		Oligonucleotide SEQ ID NO 47967 for detecting SNP TSC0013727.	
XX	XX	SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;	
XX	XX	peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;	
XX	XX	central nervous system; gastrointestinal; respiratory; immune; metabolic.	
OS	Homo sapiens.		
XX	WO200177384-A2.		
XX	18-OCT-2001.		
XX	06-APR-2001;	2001WO-IB00713.	
XX	07-APR-2000;	2000DE-1019173.	
XX	(EPIG-) EPIGENOMICS AG.		
XX	Olek A, Piepenbrock C, Berlin K;		
XX	WPI; 2001-657177/75.		
XX	Set of oligonucleotides, useful for diagnosis and cell typing, is		
XX	designed to detect single nucleotide polymorphisms and cytosine		
XX	methylation status -		
XX	Claim 1; SEQ ID 47968; 29pp + Sequence Listing; German.		
XX	This invention describes novel oligonucleotide primers or peptide nucleic		
XX	acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)		
XX	and cytosine methylation status in chemically pretreated genomic DNA. The		
XX	oligonucleotides are used for diagnosis and/or prognosis of cancer and a		
XX	range of diseases including immune system, gastrointestinal, respiratory,		
XX	central nervous system, cardiovascular and metabolic disorders. The		
XX	oligomers are also used for detecting cell type differentiation.		
XX	ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and		
XX	ABI00010-ABI82073 represent the oligomers described in the invention.		
XX	NOTE: The sequence data for this patent did not form part of the printed		
XX	specification, but was obtained in electronic format from WIPO at		
XX	ftp.wipo.int/pub/published_pct_sequences.		
XX	Claim 1; SEQ ID 47967; 29pp + Sequence Listing; German.		
XX	This invention describes novel oligonucleotide primers or peptide nucleic		
XX	acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)		
XX	and cytosine methylation status in chemically pretreated genomic DNA. The		
XX	oligonucleotides are used for diagnosis and/or prognosis of cancer and a		
XX	range of diseases including immune system, gastrointestinal, respiratory,		
XX	central nervous system, cardiovascular and metabolic disorders. The		
XX	oligomers are also used for detecting cell type differentiation.		
XX	ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and		
XX	ABI00010-ABI82073 represent the oligomers described in the invention.		
XX	NOTE: The sequence data for this patent did not form part of the printed		
XX	specification, but was obtained in electronic format from WIPO at		
XX	ftp.wipo.int/pub/published_pct_sequences.		
XX	Sequence 13 BP; 3 A; 0 C; 6 G; 4 T; 0 other;		
XX	Query Match	9.4%; Score 13; DB 1; Length 13;	
XX	Best Local Similarity	100.0%; Pred. No. 1e+02;	
XX	Matches	13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
QY	1707	TGGGTTAGGAGTA	1719
DB	1	TGGGTTAGGAGTA	13
RESULT 72			
ABC47951/C			
ID	ABC47951	standard; DNA; 13 BP.	
XX	AC	ABC47951;	
XX	AC		
DT	21-FEB-2002	(first entry)	
DE		Oligonucleotide SEQ ID NO 116651 for detecting SNP TSC0029189.	
XX	XX	SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;	
XX	XX	peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;	
XX	XX	central nervous system; gastrointestinal; respiratory; immune; metabolic.	
OS	Homo sapiens.		
XX	WO200177384-A2.		
XX	18-OCT-2001.		


```

FT FT /mod_base= m5c
FT modified_base 13
FT /tag= h
FT /mod_base= m5c
FT modified_base 15
FT /tag= i
FT /mod_base= m5c
FT modified_base 15..18
FT /tag= j
FT /mod_base= OTHER
FT /note= "2'-methoxyethyl residues"
XX
PN US6294382-B1.
XX
XX
PD 25-SEP-2001.
XX
XX
PP 27-NOV-2000; 2000US-0723534.
XX
PR 27-NOV-2000; 2000US-0723534.
XX
XX (ISIS-) ISIS PHARM INC.
XX
XX Bennett CF, Cowser LM;
PI
XX WPI; 2001-638016/73.
DR
XX
XX New antisense oligonucleotides for inhibiting the expression of human
PT steroid receptor coactivator-1, particularly useful for preventing,
PT delaying or treating infection, inflammation or tumor formation -
XX
XX Claim 3; Column 42; 36pp; English.
XX
CC The present invention relates to an antisense compound of up to 30
CC nucleobases in length, which specifically hybridizes with and inhibits
CC the expression of human steroid receptor coactivator-1 (SRC-1) (also
CC known as F-SRC-1 and NcoA-1) gene. The antisense compounds are useful
CC for diagnostics, therapeutics, prophylaxis, or as research reagents or
CC kits. The antisense oligonucleotides are useful for treating an animal,
CC particularly a human, suspected of having or being prone to a disease
CC or condition associated with the expression of SRC-1. In particular,
CC the antisense oligonucleotides are useful for preventing, delaying or
CC treating infection, inflammation or tumor formation. The present
CC sequence is an antisense oligonucleotide, ISIS# 29889, targeted to
CC human SRC-1 DNA.
XX
XX Sequence 18 BP; 5 A; 7 C; 3 G; 3 T; 0 other;
SQ
Query Match 9.5%; Score 13.2; DB 1; Length 18;
Best Local Similarity 83.3%; Pred. No. 1.6e+02;
Matches 15; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
Qy 1691 CCAGCGTGGTGGAGATTG 1708
Db 18 CCAGTGGTGGCAATTCG 1
RESULT 68
AAD41916/c
ID AAD41916 standard; DNA; 18 BP.
XX
XX
AC AAD41916;
XX
DT 30-OCT-2002 (first entry)
XX
DE Human SRC-1 antisense oligonucleotide, ISIS 29849.
XX
KW Human; steroid receptor coactivator-1; SRC-1; antisense compound;
KW diagnostic; therapeutic; prophylaxis; antisense therapy; antisense;
KW phosphorothioate backbone; ss.
XX
OS Homo sapiens.
OS Synthetic.
XX

```

```

FH Key Location/Qualifiers
FT modified_base 1..18
FT /tag= a
FT /mod_base= OTHER
FT /note= "Phosphorothioate backbone"
FT modified_base 1..4
FT /tag= b
FT /mod_base= OTHER
FT modified_base 15..18
FT /tag= c
FT /mod_base= OTHER
FT modified_base 1
FT /note= "2'-methoxyethyl nucleotides"
FT /tag= d
FT /mod_base= m5c
FT modified_base 7
FT /tag= e
FT /mod_base= m5c
FT modified_base 8
FT /tag= f
FT /mod_base= m5c
FT modified_base 10
FT /tag= g
FT /mod_base= m5c
FT modified_base 11
FT /tag= h
FT /mod_base= m5c
FT modified_base 13
FT /tag= i
FT /mod_base= m5c
FT modified_base 15
FT /tag= j
FT /mod_base= m5c
WO200244325-A2.
XX
XX 06-JUN-2002.
XX
XX 26-NOV-2001; 2001WO-US44179.
XX
XX 27-NOV-2000; 2000US-0723379.
XX (ISIS-) ISIS PHARM INC.
XX (BAYU) BAYLOR COLLEGE MEDICINE.
XX
XX O'Malley BW, Bennett CF, Cowser LM;
XX WPI; 2002-537447/57.
XX
XX Novel antisense compound targeted to nucleic acid molecules encoding
PT human steroid receptor coactivator-1 (SRC-1), useful for inhibiting
PT expression of SRC-1 in human cells or tissues -
XX
XX Example 15; Page 79; 103pp; English.
XX
CC The invention relates to antisense compounds, compositions and methods
CC for modulating the expression of human steroid receptor coactivator-1
CC (SRC-1). The compositions comprise antisense oligonucleotides targeted
CC to nucleic acids encoding SRC-1. The antisense compound is useful for
CC inhibiting the expression of SRC-1 in human cells or tissues. It is also
CC useful for treating a human having a disease or condition associated
CC with SRC-1, by inhibiting expression of SRC-1. It is also useful for
CC diagnostics, therapeutics, prophylaxis and as research reagents and
CC kits. It is also used in antisense therapy. The present sequence is
CC an antisense oligonucleotide targeted to human SRC-1 DNA. This sequence
CC is used in the exemplification of the invention.
XX
XX Sequence 18 BP; 5 A; 7 C; 3 G; 3 T; 0 other;
SQ
Query Match 9.5%; Score 13.2; DB 1; Length 18;
Best Local Similarity 83.3%; Pred. No. 1.6e+02;
Matches 15; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

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```

PN US6037142-A.
XX
XX PD 14-MAR-2000.
XX
XX PF 23-FEB-1999; 99US-0255912.
XX
XX PR 23-FEB-1999; 99US-0255912.
XX
XX PA (ISIS-) ISIS PHARM INC.
XX
XX PI Monia BP, Cowsett LM;
XX
XX PI WPI; 2000-269886/23.
XX
XX PT New antisense compound that inhibits human Smad2, useful e.g. for
XX treating or preventing infection, inflammation and tumours -
XX
XX PS Claim 11; Column 39; 31pp; English.
XX
XX This sequence represents an antisense nucleotide sequence targeting
XX human Smad2. Smad2 is also known as MADH2, MADR2, hMAD2 and JVI18-1, and
XX is a member of a subgroup of Smad family transcription factors which are
XX cytosolic proteins regulated by transforming growth factor-beta
XX (TGF-beta) and activins. Smads exist as monomers in unstimulated cells
XX as homo- or heterodimerise and translocate to the nucleus and activate
XX target gene transcription upon ligand binding. The Smad2 gene is located
XX on chromosome 18q21. The invention relates to antisense compounds
XX (see AAA10548-A10587) targeted to the Smad2 nucleotide sequence. The
XX antisense oligonucleotide sequences inhibit Smad2 expression by
XX hybridising to DNA or RNA. The antisense nucleotides are used to treat
XX or prevent diseases associated with expression of Smad2, e.g. infection,
XX inflammation and tumours. The oligonucleotides can also be used as
XX diagnostic or research reagents.
XX
XX SQ Sequence 18 BP; 4 A; 2 C; 7 G; 5 T; 0 other;

Query Match 9.5%; Score 13.2; DB 1; Length 18;
Best Local Similarity 83.3%; Pred. No. 1.6e+02;
Matches 15; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1699 GTGGAAGTTGGGTTAGGA 1716
DB 1 GCGGAAGTTCTCTTAGGA 18

RESULT 66
AAZ98709/c
ID AAZ98709 standard; DNA; 18 BP.
XX
XX AC AAZ98709;
XX
XX DT 20-JUN-2000 (first entry)
XX
XX DE Collagen promoter inhibitory oligonucleotide Oligo Col 158 APS.
XX
XX KW Collagen; inhibit; myocardial fibrosis; hypertensive heart disease;
XX atherosclerosis; restenosis; liver cirrhosis; lung fibrosis; burn injury;
XX peritoneal fibrosis; skin fibrosis; scleroderma; hypertrophic scar; ss.
XX
XX OS Rattus sp.
XX
XX FN WC200008213-A1.
XX
XX PD 17-FEB-2000.
XX
XX PF 06-AUG-1999; 99WO-US17824.
XX
XX PR 07-AUG-1998; 98US-0130888.
XX
XX PA (GUNT/) GUNTAKA R V.
XX
XX PI Guntaka RV, Weber KT, Kovacs A, Kandala J;

WPI; 2000-205739/18.
XX
XX Inhibitors of collagen gene useful for treating fibrosis associated
XX with atherosclerosis, restenosis, liver cirrhosis, lung and skin
XX fibrosis, comprises oligomers capable of inhibiting collagen gene -
XX
XX PS Claim 19; Fig 8; 77pp; English.
XX
XX This sequence represents an oligomer which is capable of inhibiting the
XX expression of the collagen gene. The oligomer is capable of binding to
XX the promoter region of the collagen gene. Collagen is a family of fibrous
XX proteins, and is the major element of skin, bone, tendon, cartilage,
XX blood vessels and teeth. The oligomers are useful for inhibiting
XX expression of the collagen gene, comprising inserting the oligomers into
XX a cell and causing an intracellular reaction to inhibit the gene
XX expression. The collagen inhibitory oligomers of the invention are useful
XX for treating pathological fibrosis associated with myocardial fibrosis in
XX hypertensive heart disease, atherosclerosis, restenosis, liver cirrhosis,
XX lung fibrosis, peritoneal fibrosis and skin fibrosis found in
XX scleroderma, hypertrophic scars and burn injury.
XX
XX SQ Sequence 18 BP; 6 A; 0 C; 12 G; 0 U; 0 other;

Query Match 9.5%; Score 13.2; DB 1; Length 18;
Best Local Similarity 83.3%; Pred. No. 1.6e+02;
Matches 15; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1736 CTCGCCAAGTCTCTCCTAT 1753
DB 18 CTCGCCAAGTCTCTCCTTT 1

RESULT 67
AAD20365/c
ID AAD20365 standard; DNA; 18 BP.
XX
XX AC AAD20365;
XX
XX DT 03-JAN-2002 (first entry)
XX
XX DE Antisense oligo, ISIS# 29889, targetted to human SRC-1 DNA.
XX
XX KW Human; antisense; steroid receptor coactivator-1; SRC-1; F-SRC-1; NcoA-1;
XX diagnostic; therapeutic; prophylaxis; infection; inflammation;
XX cytostatic; tumour formation; antinflammatory; antibacterial;
XX phosphorothioate; ss.
XX
XX OS Homo sapiens.
XX
XX OS Synthetic.
XX
XX PH Key Location/Qualifiers
XX modified_base 1..20 /tag= a
XX /mod_base= OTHER
XX /note= "Phosphorothioate backbone"
XX modified_base 1..4 /tag= b
XX /mod_base= OTHER
XX modified_base 1 /tag= c
XX /mod_base= m5c
XX modified_base 7 /tag= d
XX /mod_base= m5c
XX modified_base 8 /tag= e
XX /mod_base= m5c
XX modified_base 10 /tag= f
XX modified_base 1 /tag= g

```

```

AAAT60161/c
ID  AAAT60161 standard; DNA; 18 BP.
XX
XX
AC  AAAT60161;
XX
XX
DT  01-DEC-1997 (first entry)
XX
XX  Collagen gene promoter region binding oligomer Oligo 158 APS.
DE
XX  Triplex; inhibition; collagen gene; promoter; pathological fibrosis;
KW  myocardial fibrosis; hypertensive heart disease; atherosclerosis;
KW  restenosis; liver cirrhosis; lung fibrosis; skin fibrosis; scleroderma;
KW  hypertrophic scar; burn injury; rat; polypurine; polypyrimidine; ss.
XX
XX  Synthetic.
OS
XX
XX  Key Location/Qualifiers
PH  misc_feature 1..18
FT  /*tag= a
FT  /note= "Phosphorothioate linkages"
XX
XX  WO9710254-A1.
PN
XX
XX  20-MAR-1997.
PD
XX
XX  12-SEP-1996; 96WO-US14640.
PF
XX
XX  11-SEP-1996; 96US-0712357.
PR
XX  15-SEP-1995; 95US-0528836.
PR
XX
XX  (GUNTAKA R V.
PA
XX
XX  Guntaka RV, Kandaia J, Kovacs A, Weber KT;
PI
XX  WPI; 1997-202172/18.
XX
XX  Triplex forming oligomer binds to collagen gene promoter region -
PT  used to impede pathological fibrosis etc.
PT
XX
XX  Claim 18; Page 36; 52pp; English.
PS
XX
XX  An oligomer has been produced which is capable of inhibiting expression
CC  of a collagen gene. The present sequence represents a specifically
CC  claimed oligomer Oligo 158 APS, which binds to the polypurine-
CC  polypyrimidine region of the rat alpha1(I) collagen gene promoter
CC  region. The oligomer may be used to impede pathological fibrosis which
CC  is associated with myocardial fibrosis in hypertensive heart diseases,
CC  atherosclerosis, restenosis, liver cirrhosis, lung fibrosis, and skin
CC  fibrosis found in scleroderma, in hypertrophic scars and in skin
CC  following burn injury. The oligomer inhibits expression of a collagen
CC  gene after insertion into a cell by causing an intracellular reaction
CC  which inhibits gene expression. The oligomer is preferably a triplex
CC  forming oligomer (TFO) which is targeted to a 30-mer polypurine
CC  oligonucleotide corresponding to the noncoding strand of the promoter
CC  between -170 and -140. This section was chosen due to its binding
CC  stability at physiological pH.
XX
XX  Sequence 18 BP; 6 A; 0 C; 12 G; 0 U; 0 other;
SQ
Query Match 9.5%; Score 13.2; DB 1; Length 18;
Best Local Similarity 83.3%; Pred. No. 1.6e+02;
Matches 15; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1736 CTCCTCAACTCTCTCCTAT 1753
Db 18 CTCCTCAACTCTCTCCTTT 1

RESULT 64
AAA92575
ID AAA92575 standard; DNA; 18 BP.
XX
XX
AC AAA92575;

QY 1668 CAGCTGGAACTCTGGTGT 1685
Db 1 CTGCTGGAACTCTGGTAT 18

Query Match 9.5%; Score 13.2; DB 1; Length 18;
Best Local Similarity 83.3%; Pred. No. 1.6e+02;
Matches 15; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1668 CAGCTGGAACTCTGGTGT 1685
Db 1 CTGCTGGAACTCTGGTAT 18

RESULT 65
AAAL0567
ID AAAL0567 standard; DNA; 18 BP.
XX
XX
AC AAAL0567;
XX
XX  29-JUN-2000 (first entry)
DT
XX
XX  Smad2 antisense oligonucleotide sequence #20 (ISIS# 27797).
DE
XX
XX  Smad2; MADH2; MADR2; hMAD2; JV18-1; transcription factor; inflammation;
KW  chromosome 18q21; antisense compound; treat; prevent; infection; tumour;
KW  diagnostic reagent; research reagent; ss; cancer.
XX
XX  Synthetic.
OS
XX

```

```

XX
DT  04-JAN-2001 (first entry)
XX
XX  Antisense oligonucleotide ISIS# 30285.
DE
XX
XX  Human; SRA; steroid receptor RNA activator; cytostatic; antiinflammatory;
KW  SRA inhibitor; cancer; infection; antisense oligonucleotide; ss.
XX
XX  Synthetic.
OS
XX
XX  US6107092-A.
PN
XX
XX  22-AUG-2000.
PD
XX
XX  29-MAR-1999; 99US-0280409.
PF
XX
XX  29-MAR-1999; 99US-0280409.
PR
XX
XX  (ISIS-) ISIS PHARM INC.
PA  (BAYU) BAYLOR COLLEGE MEDICINE.
XX
XX  Cowsett LM, Bennett CF, O'Malley BW;
PI
XX  WPI; 2000-586211/55.
XX
XX  Antisense compounds targeted to steroid receptor RNA activator useful
PT  for diagnosis, prophylaxis and treatment of diseases associated with
PT  the steroid activator, such as infection, inflammation or tumor
PT  formation -
XX
XX  Claim 3; Column 41; 47pp; English.
XX
XX  The present sequence is one of a large number of antisense
CC  oligonucleotides which is directed against one of four human steroid
CC  receptor RNA activator (SRA) nucleic acid sequences. Two series of
CC  antisense oligonucleotides were synthesised. The first series comprised
CC  8-30 oligodeoxynucleotides with a phosphorothioate backbone. The second
CC  series comprised chimeric oligonucleotides composed of a central gap
CC  region, consisting of ten 2'-deoxynucleotides, which was flanked on both
CC  sides by four-nucleotide wings. The wings were composed of
CC  2'-methoxyethyl (2'-MOE) nucleotides. Both series contained the same
CC  nucleotide sequences. The antisense compounds are useful for research,
CC  diagnosis, treatment and prophylaxis to prevent or delay infection,
CC  inflammation or tumour formation. Therapeutically the oligonucleotides
CC  are highly safe and are effectively administered to humans.
XX
XX  Sequence 18 BP; 3 A; 4 C; 6 G; 5 T; 0 other;
SQ
Query Match 9.5%; Score 13.2; DB 1; Length 18;
Best Local Similarity 83.3%; Pred. No. 1.6e+02;
Matches 15; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1668 CAGCTGGAACTCTGGTGT 1685
Db 1 CTGCTGGAACTCTGGTAT 18

RESULT 65
AAAL0567
ID AAAL0567 standard; DNA; 18 BP.
XX
XX
AC AAAL0567;
XX
XX  29-JUN-2000 (first entry)
DT
XX
XX  Smad2 antisense oligonucleotide sequence #20 (ISIS# 27797).
DE
XX
XX  Smad2; MADH2; MADR2; hMAD2; JV18-1; transcription factor; inflammation;
KW  chromosome 18q21; antisense compound; treat; prevent; infection; tumour;
KW  diagnostic reagent; research reagent; ss; cancer.
XX
XX  Synthetic.
OS
XX

```

Best Local Similarity	93.3%;	pred. No. 1.7e+02;	
Matches	14; Conservative	0; Mismatches	1; Indels
			0; Gaps
			0;

QY 1644 AGCAGAAGGCAAGCA 1658
|||
D'b 18 AGCAGAAGGCATGCA 4

D^b 18 AGCAGAAGGCATGCA 4

RESULT 61	
ABL43434/C	
ID ABL43434	standard; DNA; 19 BP.
XX	
XX	ABL43434;
XX	
XX	
DT	11-APR-2002 (first entry)
DE	
DE	Human chromosome 1p36-35 PCR primer SEQ ID NO:478.

Db 18. AGCAGAAGGCATGCA 4

RESULT 62	
AAT94803/c	
ID	AAT94803 standard; DNA; 18 BP.
XX	
XX	
XX	AAT94803;
XX	
XX	
XX	19-FEB-1998 (first entry)
DT	
DE	Human leukocyte antigen class I gene URSTO probe 531-548.
XX	
XX	
XX	Human leukocyte antigen; HLA; probe; tissue transplantation;
XX	MHC gene; major histocompatibility complex; paternity test;
XX	forensic medicine; haematological malignancy; inherited disorder;
KW	adoptive immunotherapy; identification; ss.

Db 18 TAGGCTCTCAACTGCTCC

RESULT 63

CC and for identifying mutagenic effects of a compound.
XX
SQ Sequence 19 BP; 6 A; 5 C; 7 G; 1 T; 0 other;
Query Match 9.6%; Score 13.4; DB 1; Length 19;
Best Local Similarity 93.3%; Pred. No. 1.7e+02;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1655 AGCACCAGGCTCACA 1669
|||||
DB 5 AGCACCAGGCTGACA 19
RESULT 59
ID AAH58085/c
XX AAH58085;
XX
DT 10-SEP-2001 (first entry)
DE Cell-cycle dependent kinase cdk4 ribozyme binding site SEQ ID NO:509.
XX
XX Human; ribozyme therapy; hairpin ribozyme; hammerhead ribozyme;
KW recognition site; target; ribozyme binding site; eye disease; vulvar;
KW proliferative disease; skin disease; psoriasis; diabetic retinopathy;
KW cytokine; inflammation; cell-cycle dependent kinase; cyclin; MMP;
KW matrix metalloproteinase; growth factor; reductase; scarring; cytostatic;
KW antiproliferative; dermatological; antiseborrheic; antidiabetic; virucide;
KW antisickling; ophthalmological; keratolytic; gene therapy; viral wart;
KW atopic dermatitis; actinic keratosis; squamous cell carcinoma;
KW basal cell carcinoma; seborrheic wart; vitreoretinopathy; scar;
KW sickle cell retinopathy; ss.
XX
XX Homo sapiens.
OS Synthetic.
OS
XX WO200130362-A2.
XX
XX 03-MAY-2001.
XX
XX 26-OCT-2000; 2000WO-US29500.
XX
XX 26-OCT-1999; 99US-0161532.
XX
XX (IMMU-) IMMUSOL INC.
XX
XX Robbins JW, Tritz R;
PI
XX WPI; 2001-300427/31.
XX
XX Treating proliferative skin or eye diseases and scarring, using
PT ribozymes that cleave RNA encoding cytokines involved in inflammation,
PT matrix metalloproteinases, growth factors and cell-cycle dependent
PT kinases -
XX
XX Example 1; Page 109; 408pp; English.
XX
XX The present invention describes a method for treating a proliferative
CC skin or eye disease and scarring. The method involves administering a
CC ribozyme (I) which cleaves RNA encoding a cytokine involved in
CC inflammation, matrix metalloproteinase (MMP), cyclin, cell-cycle
CC dependent kinase, growth factor or a reductase, or administering a
CC nucleic acid molecule (II) comprising a promoter operably linked to a
CC nucleic acid segment encoding (I). (I) can have antiproliferative,
CC dermatological, cytostatic, antiseborrheic, antidiabetic, antisickling,
CC ophthalmological, vulvar, keratolytic and virucide activities, and
CC cleaves RNA encoding cytokine involved in inflammation. (I) can be used
CC in gene therapy. (I) and (II) are useful for treating proliferative
CC skin diseases such as psoriasis, atopic dermatitis, actinic keratosis,
CC squamous or basal cell carcinoma and viral or seborrheic wart. They can
CC also be used for treating proliferative eye diseases such as diabetic
CC retinopathy, vitreoretinopathy, sickle cell retinopathy, retinopathy of

CC prematurity and retinal detachment, and for treating and preventing
CC scarring such as keloid, adhesion and hypertrophic or hypertrophic burn
CC scar. AAH57577 to AAH62099 represent sequences used in the
CC exemplification of the present invention.
XX
SQ Sequence 19 BP; 5 A; 3 C; 9 G; 2 T; 0 other;
Query Match 9.6%; Score 13.4; DB 1; Length 19;
Best Local Similarity 93.3%; Pred. No. 1.7e+02;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1735 GCTCCCAACTCCTCC 1749
|||||
DB 16 GCTCCGACTCCTCC 2
RESULT 60
ID ABL43426/c
XX ABL43426 standard; DNA; 19 BP.
XX
AC ABL43426;
XX
DT 11-APR-2002 (first entry)
DE Human chromosome 1p36-35 PCR primer SEQ ID NO:470.
XX
XX Human; chromosome 1p36-35; chromosome 21q22.1; genetic analysis;
KW genome; PCR primer; ss.
XX
XX Homo sapiens.
XX
XX JP2001321190-A.
XX
XX 20-NOV-2001.
XX
XX 12-MAR-2001; 2001JP-0068285.
XX
XX 10-MAR-2000; 2000JP-0066716.
XX
XX (RIKA) RIKAGAKU KENKYUSHO.
XX
XX (GENO-) GENOTEX YG.
XX
XX WPI; 2002-144136/19.
XX
XX Arraying genome clones -
XX
XX Claim 4; Page 14; 528pp; Japanese.
XX
XX The present invention describes a method of arraying genome clones. The
CC method comprises: (a) clones of the genomic libraries contained in
CC multiwell plates numbered for discrimination are mixed in each of the
CC multiwell plates; (b) a primer designed based on the chromosome marker
CC sequence is added to the mixture to carry out an amplification reaction;
CC (c) a signal corresponding to the marker is detected from the resultant
CC amplified product to specify the discrimination Nos. of the multiwell
CC plates containing the clones having said marker sequence; (d) the order
CC of the markers is changed so that the same discrimination Nos. succeed to
CC the maximum in the specified discrimination Nos. to array the multiwell
CC plates; (e) the clones in the multiwell plates of the specified
CC discrimination Nos. are mixed respectively in each wells of longitudinal
CC and lateral directions; (f) the mixed clones are cultured and the
CC resultant cultures are amplified by using the above primer; (g) signals
CC are detected from the amplified products; (h) the clones in the multiwell
CC plates are specified from the detected result; and (i) the clones are
CC reconstituted as the positions on the chromosome and arrayed. The
CC microarray is useful for gene analysis. ABL42957 to ABL45322 represent
CC PCR primers for human chromosome 1p36-35 DNA, and ABL45323 to ABL45634
CC represent PCR primers for human chromosome 21q22.1, which are
CC specifically claimed for use in the present invention.
XX
SQ Sequence 19 BP; 1 A; 6 C; 3 G; 9 T; 0 other;
Query Match 9.6%; Score 13.4; DB 1; Length 19;

XX Collection of binding groups for determining or typing samples,
PT especially clinical samples, has groups capable to identify essentially
PT all members of the family of nucleic acids of relatively high
PT significance -
XX
PS Disclosure; Page 14; 166pp; English.
XX
XX The present invention describes a collection of binding groups for a
CC family of nucleic acids comprising members of relative high and relative
CC low significance, where the binding groups are selected to be capable to
CC identify, alone or in combination, essentially all members of the family
CC of nucleic acids of relatively high significance. The collection of
CC binding groups is useful for typing of nucleic acid in a clinical sample,
CC by contacting the nucleic acid with the collection and determining
CC whether one or more binding groups bound to the nucleic acid of the
CC sample. This method is useful for determining whether the sample
CC comprises at least a part of a member of relatively high significance of
CC a family of nucleic acids. The collection of binding groups is useful for
CC diagnosing the severity of a disease caused by a pathogen containing a
CC member of a family of nucleic acids. AB08779 to AB08921 represent
CC oligonucleotide sequences used in the exemplification of the present
CC invention.
XX
XX Sequence 18 BP; 7 A; 1 C; 8 G; 2 T; 0 other;
SQ
Query Match 9.6%; Score 13.4; DB 1; Length 18;
Best Local Similarity 93.3%; Pred. No. 1.5e+02;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1717 GTACGAGATGAGAGA 1731
Dd 1 GTACAGAGATGAGAGA 15
RESULT 57
AAA82923/C
ID AAA82923 standard; DNA; 19 BP.
XX
AC AAA82923;
XX
DT 04-DEC-2000 (first entry)
XX
DE cdk4 ribozyme binding site #104.
XX
KW Ribozyme; hairpin; hammerhead; gene therapy; vasotropic;
XX restenosis; ss.
XX
OS Mammalia.
XX
XX WO200032765-A2.
XX
PD 08-JUN-2000.
XX
PF 06-DEC-1999; 99WO-US28772.
XX
PR 04-DEC-1998; 98US-0110954.
XX
PA (IMMU-) IMMUSOL INC.
XX
PI Tritz R, Welch PU, Barber JR, Robbins JM;
XX
XX WPI; 2000-412314/35.
XX
XX New hairpin and hammerhead ribozyme for inhibiting restenosis, cleaves
PT RNA encoding a cyclin or cell-cycle dependent kinase other than CDK1,
PT PCNA and Cyclin B1 -
XX
XX Disclosure; Page 53; 109pp; English.
XX
XX The present invention relates to a hairpin or hammerhead ribozyme,
CC designed to cleave RNA encoding a cyclin or cell-cycle dependent kinase
CC other than cell-cycle dependent kinases CDK1, PCNA and Cyclin B1.

CC Representative examples of ribozyme recognition sites are given in
CC AA82415 to AA86787. The ribozyme of the invention is useful for
CC inhibiting restenosis by introduction of the ribozyme into cells.
CC The ribozyme is resistant to endonuclease activity and hence is
CC efficient in restenosis treatment.
XX
XX Sequence 19 BP; 5 A; 3 C; 9 G; 2 T; 0 other;
SQ
Query Match 9.6%; Score 13.4; DB 1; Length 19;
Best Local Similarity 93.3%; Pred. No. 1.7e+02;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1735 GCTCCGACTCTCC 1749
Dd 16 GCTCCGACTCTCC 2
RESULT 58
AAA51763
ID AAA51763 standard; DNA; 19 BP.
XX
AC AAA51763;
XX
DT 31-OCT-2000 (first entry)
XX
DE Primer to amplify CYP3A5 gene in real time PCR.
XX
KW CYP3A5; Cytochrome P450; transcription regulatory region; polymorphism;
KW Activator protein-3 motif; AP-3; basic transcription element;
KW drug metabolism; phenotype; primer; ss.
XX
OS Homo sapiens.
XX
XX WO200039332-A1.
XX
PD 06-JUL-2000.
XX
PF 22-DEC-1999; 99WO-GB04380.
XX
PR 23-DEC-1998; 98GB-0028619.
XX
PA (JANC) JANSSEN PHARM NV.
XX
XX Paulussen ADC, Armstrong M;
XX
XX WPI; 2000-452418/39.
XX
XX Identifying subjects with a high drug metabolizing phenotype associated
PT with cytochrome CYP3A5 expression for establishing whether a drug will
PT be metabolized by the subject
XX
XX Disclosure; Page 21; 68pp; English.
XX
XX Primers AAA51762-63 were used to amplify cytochrome P450 CYP3A5 gene
CC in a real time PCR assay to ensure specificity.
CC
CC Cytochrome P450 subfamily CYP3A5 transcription regulatory regions can be
CC screened for the presence/absence of a polymorphic variant, preferably
CC at positions -475 or -147 of the DNA of the 5' flanking region adjacent
CC to the CYP3A5 coding sequence. The variants are present in an activator
CC protein-3 (AP-3) motif and/or a basic transcription element (BTE). The
CC polymorphisms cause increased CYP3A5 gene expression and this has been
CC linked to drug metabolic activity. Screening for the presence of
CC variants can be used to identify subjects with a high or low drug
CC metabolizing phenotype associated with cytochrome CYP3A5 expression.
CC
CC Primers are used which in addition to hybridizing to the site of
CC interest, are capable of introducing a restriction site which is absent
CC in either the wild type sequence or polymorphic variants. Restriction
CC enzyme cleavage analysis can then be used to indicate the presence or
CC absence of the variant. The methods are used to establish, before
CC treatment with a drug, whether the drug will be effectively metabolized
CC by the patient, to identify compounds and transcription factors that can
CC bind to a DNA sequence encoding CYP3A5, diagnosing susceptibility to a
CC disease which is caused by toxins or procarcinogens metabolized by CYP3A5

```

XX DE PCR primer for human GDNF promoter sequence.
XX KW GDNF promoter; human; glial cell line-derived neurotrophic factor;
KW neurodegenerative disease; Parkinson's disease; renal disease; therapy;
KW urogenital disease; gastrointestinal disease; physical nerve trauma;
KW PCR primer; ss.
XX OS Synthetic.
XX OS Homo sapiens.
XX PN WO9907843-A1.
XX PD 18-FEB-1999.
XX PF 23-JUL-1998; 98WO-EP04620.
XX PR 14-APR-1998; 98US-0081751.
XX PR 05-AUG-1997; 97US-0054812.
XX PA (HOFF ) HOFFMANN LA ROCHE & CO AG F.
XX PI Baecker PA, Johnson RM, Lee WH, Verity AN;
XX WPI; 1999-180491/15.
XX DR New human glial cell line-derived neurotrophic factor promoters -
XX PT useful in the treatment of neurodegenerative conditions including
XX PT Parkinson's disease
XX PS Example 1; Page 34; 100pp; English.
XX CC This sequence is a primer for a human glial cell line-derived
XX CC neurotrophic factor (hGDNF) promoter. The promoters can be used to
XX CC identify hGDNF modulators. hGDNF modulators are used to treat a mammal
XX CC exhibiting neurodegenerative disease-like symptoms, particularly,
XX CC Parkinson's disease, as well as renal, urogenital, and gastrointestinal
XX CC diseases, and neurodegenerative sequelae of physical nerve trauma. The
XX CC hGDNF modulator has anti-neurodegenerative activity and the promoters
XX CC regulate GDNF expression. GDNF has a developmental role in survival of
XX CC mid-brain dopaminergic neurons, cerebellar Purkinje neurons, and cranial
XX CC and spinal cord motor neurons. In the peripheral nervous system, GDNF
XX CC supports the development of multiple neuronal populations, including
XX CC sympathetic, parasympathetic, sensory, and autonomic neurons. Delivery of
XX CC a small molecule GDNF expression modulator is less pulsatile and less
XX CC invasive than prior art treatment involving intraparenchymal, ICV, or
XX CC intrathecal injection of GDNF.
XX SQ Sequence 18 BP; 6 A; 7 C; 5 G; 0 U; 0 other;
Query Match 9.9%; Score 13.8; DB 1; Length 18;
Best Local Similarity 88.2%; Pred. No. 1.3e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1655 AGCACCAGGCTCACAGC 1671
DB 2 AGCACCAGGCTCACAGC 18
RESULT 55
AAQ50940
ID AAQ50940 standard; DNA; 18 BP.
XX AC AAQ50940;
XX DT 25-MAR-2003 (updated)
XX DT 19-MAY-1994 (first entry)
XX DE T-cell antigen receptor J-beta2.7 probe.
XX KW RT-PCR; polymerase chain reaction; amplification; SSCP; J-domain;
KW single-strand conformation polymorphism; joining domain;
KW subtype beta 2; ss.

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```

XX OS Synthetic.
XX PN WO9322455-A1.
XX PD 11-NOV-1993.
XX PF 30-APR-1993; 93WO-JP00577.
XX PR 30-APR-1992; 92JP-0111467.
XX PR 31-JUL-1992; 92JP-0205054.
XX PA (LTTL-) LTT INST CO LTD.
XX PA (TAIS ) TAISHO PHARM CO LTD.
XX PI Ikeda Y, Mizushima Y, Nishioka K, Sakoda H, Yamamoto K;
XX WPI; 1993-368813/46.
XX DR Detection of expression of T-cell antigen receptor gene - in
XX PT cancer, viral or immune disease patients, by polymerase chain
XX PT reaction amplification of the gene and SSCP analysis
XX PS Example 1; Page 24; 47pp; Japanese.
XX CC Primers corresp. to DNA coding for part of the beta-chain of the T
XX CC cell antigen receptor (pref. the Variable region primers AAQ50905-
XX CC AAQ50926) are used in PCR to amplify the T cell antigen receptor gene.
XX CC The amplified gene is detected by the single-strand conformation
XX CC polymorphism method using hybridisation probes corresp. to the
XX CC beta-chain J domain (see AAQ50928-Q50940).
XX CC (Updated on 25-MAR-2003 to correct PN field.)
XX SQ Sequence 18 BP; 3 A; 6 C; 7 G; 2 T; 0 other;
Query Match 9.6%; Score 13.4; DB 1; Length 18;
Best Local Similarity 93.3%; Pred. No. 1.5e+02;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1656 GCACCAGGCTCACAG 1670
DB 3 GCACCAGGCTCACAGG 17
RESULT 56
ABL88809
ID ABL88809 standard; DNA; 18 BP.
XX AC ABL88809;
XX DT 22-MAY-2002 (first entry)
XX DE HIV-1 related binding molecule oligonucleotide sequence SEQ ID NO:32.
XX KW Binding molecule; HIV-1; human immunodeficiency virus type 1;
XX KW reverse transcriptase; binding group; ss.
XX OS Human immunodeficiency virus type 1.
XX OS Synthetic.
XX PN EP1174518-A1.
XX PD 23-JAN-2002.
XX PF 20-JUL-2000; 2000EP-0202611.
XX PR 20-JUL-2000; 2000EP-0202611.
XX PA (AMST-) AMSTERDAM SUPPORT DIAGNOSTICS BV.
XX PI Loukachov VV, Van Gemen B, Goudsmit J;
XX WPI; 2002-156696/21.

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XX PF 05-MAY-1998; 98WO-US09249.
 XX PR 19-DEC-1997; 97US-0068212.
 XX PR 09-MAY-1997; 97US-0046059.
 PR 09-JUN-1997; 97US-0049002.
 PR 03-JUL-1997; 97US-0051718.
 PR 22-AUG-1997; 97US-0056808.
 PR 02-OCT-1997; 97US-0061321.
 PR 02-OCT-1997; 97US-0061324.
 PR 05-NOV-1997; 97US-0064866.
 XX XX (RIBO-) RIBOZYME PHARM INC.
 XX PA Beaudry A, Beigelman L, Bellon L, Burgin A, Jarvis T;
 PI Karpeisky A, Kisich K, Matulic-Adamic J, McSwiggen JA;
 PI Parry T, Reynolds M, Sweedler D, Thompson J, Workman CT;
 DR WPI; 1999-009494/01.
 XX PR Identifying new catalytic nucleic acid that modulates selected
 PT processes - especially ribozymes that cleave Raf RNA for treating
 PT cancer, restenosis, and also new ribozymes and modified nucleoside
 PT triphosphates used as antiviral agents and synthons
 XX XX
 PS Claim 177; Page 147; 259pp; English.
 CC A method has been developed for the identification of a nucleic acid
 CC capable of modulating a process in a biological system. The method
 CC comprises: (a) introducing into the system a random library of nucleic
 CC acid catalysts (NAC) having a substrate binding domain (SBD), comprising
 CC a random sequence, and a catalytic domain (CD); and (b) identifying NAC
 CC in systems where modulation has occurred and/or determining the sequence
 CC of at least part of the SBDs in such systems. Nucleic acid molecules
 CC with endonuclease activity and catalytic activity, from the present
 CC invention, are used to modulate gene expression in plant and mammalian
 CC cells and to cleave target nucleic acid, particularly for treating
 CC systemic diseases caused by specific RNA, e.g. cancer, inflammation,
 CC psoriasis, non-hepatic ascites and infection. They may also be used to
 CC detect genetic drift and mutations in diseased cells and to determine
 CC c-raf RNA. Specifically NACs with RNA-cleaving activity that modulate
 CC expression of the Raf gene, are used to treat cancer, restenosis,
 CC psoriasis or rheumatoid arthritis, or generally any condition associated
 CC with the level of c-raf. Introduction of sugar/phosphate modifications
 CC increases stability against nuclease and activity. AAV90922 to AAV93877
 CC represent NACs that can be used in the method, specifically for
 CC modulating the expression of a Raf gene.
 XX Sequence 17 BP; 2 A; 5 C; 4 G; 6 U; 0 other;
 SQ Query Match 9.9%; Score 13.8; DB 1; Length 17;
 Best Local Similarity 88.2%; Pred. No. 1.1e+02;
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 1646 CAGAAGGCAAGCACCAG 1662
 DB 17 CAGAAGGCAAGCTTCAG 1
 RESULT 53
 AAV91006/c
 ID AAV91006 standard; RNA; 17 BP.
 XX AC AAV91006;
 XX DT 18-FEB-1999 (first entry)
 XX DE Human C-raf target site nucleotide position 581.
 XX Human; c-raf; A-raf; B-raf; hammerhead ribozyme; hairpin ribozyme;
 KW target; substrate; catalyst; modulation; expression; Raf gene;
 KW delivery; screening; identification; synthesis; deprotection;
 KW purification; cancer; inflammation; psoriasis; non-hepatic ascites;

KW infection; genetic drift; restenosis; rheumatoid arthritis; ss.
 XX Homo sapiens.
 XX PN WC9850530-A2.
 PD 12-NOV-1998.
 XX PF 05-MAY-1998; 98WO-US09249.
 XX PR 19-DEC-1997; 97US-0068212.
 PR 09-MAY-1997; 97US-0046059.
 PR 09-JUN-1997; 97US-0049002.
 PR 03-JUL-1997; 97US-0051718.
 PR 22-AUG-1997; 97US-0056808.
 PR 02-OCT-1997; 97US-0061321.
 PR 02-OCT-1997; 97US-0061324.
 PR 05-NOV-1997; 97US-0064866.
 XX XX (RIBO-) RIBOZYME PHARM INC.
 XX PA Beaudry A, Beigelman L, Bellon L, Burgin A, Jarvis T;
 PI Karpeisky A, Kisich K, Matulic-Adamic J, McSwiggen JA;
 PI Parry T, Reynolds M, Sweedler D, Thompson J, Workman CT;
 DR WPI; 1999-009494/01.
 XX PR Identifying new catalytic nucleic acid that modulates selected
 PT processes - especially ribozymes that cleave Raf RNA for treating
 PT cancer, restenosis, and also new ribozymes and modified nucleoside
 PT triphosphates used as antiviral agents and synthons
 XX XX
 PS Claim 177; Page 147; 259pp; English.
 CC A method has been developed for the identification of a nucleic acid
 CC capable of modulating a process in a biological system. The method
 CC comprises: (a) introducing into the system a random library of nucleic
 CC acid catalysts (NAC) having a substrate binding domain (SBD), comprising
 CC a random sequence, and a catalytic domain (CD); and (b) identifying NAC
 CC in systems where modulation has occurred and/or determining the sequence
 CC of at least part of the SBDs in such systems. Nucleic acid molecules
 CC with endonuclease activity and catalytic activity, from the present
 CC invention, are used to modulate gene expression in plant and mammalian
 CC cells and to cleave target nucleic acid, particularly for treating
 CC systemic diseases caused by specific RNA, e.g. cancer, inflammation,
 CC psoriasis, non-hepatic ascites and infection. They may also be used to
 CC detect genetic drift and mutations in diseased cells and to determine
 CC c-raf RNA. Specifically NACs with RNA-cleaving activity that modulate
 CC expression of the Raf gene, are used to treat cancer, restenosis,
 CC psoriasis or rheumatoid arthritis, or generally any condition associated
 CC with the level of c-raf. Introduction of sugar/phosphate modifications
 CC increases stability against nuclease and activity. AAV90922 to AAV93877
 CC represent NACs that can be used in the method, specifically for
 CC modulating the expression of a Raf gene.
 XX Sequence 17 BP; 2 A; 5 C; 4 G; 6 U; 0 other;
 SQ Query Match 9.9%; Score 13.8; DB 1; Length 17;
 Best Local Similarity 88.2%; Pred. No. 1.1e+02;
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 1641 TGTAGCGAAGGCAGC 1657
 DB 17 TGTACAGAGGCAAGC 1
 RESULT 54
 AAX28045
 ID AAX28045 standard; DNA; 18 BP.
 XX AC AAX28045;
 XX DT 10-JUN-1999 (first entry)

QY 1662 GGCTCAGCTGGACCT 1680
 |||||
 Db 20 GGCTCACACCTGTAATCT 2

RESULT 50
 ABT23628/C
 ID ABT23628 standard; DNA; 20 BP.

XX AC ABT23628;

XX DT 22-MAY-2003 (first entry)

XX DE Stabilising reagent method related oligo SEQ ID No 80.

XX KW Stabilising reaction reagent; PCR; primer; RNaseH; long-term storage;
 KW specific amplification; pathogenic microorganism; chimeric;
 KW genetic engineering; clinical medicine; ss.

XX OS Unidentified.

XX PN WO2002101042-A1.

XX PD 19-DEC-2002.

XX PF 12-JUN-2002; 2002WO-JP05832.

XX PR 12-JUN-2001; 2001JP-0177737.

XX PR 20-AUG-2001; 2001JP-0249689.

XX PA (TAKA-) TAKARA BIO INC.

XX PI Sagawa H, Umori T, Mukai H, Yamamoto J, Tomono J, Kobayashi E;

XX PI Enoki T, Asada K, Kato I;

XX DR WPI; 2003-148805/14.

XX PT Method for stabilising and storing reaction reagents for specific
 PT amplification and detection of nucleic acids particularly in e.g.
 PT identifying pathogenic microorganisms or viruses in sample -

XX PS Example 15; Page 137; 177pp; Japanese.

XX CC The invention relates to a novel stabilising reaction reagent for use in
 CC the amplification and/or detection of a target nucleic acid comprising:
 CC preparing a reaction mixture with e.g. a nucleic acid as template, at
 CC least 1 primer and RNaseH; and incubation of the reaction mixture for a
 CC defined period of time to form a reaction product during the
 CC amplification of such target nucleic acid. The method is useful for
 CC stabilising and long-term storage of reaction reagents for highly
 CC sensitive and specific amplification and detection of nucleic acids
 CC particularly in identifying pathogenic microorganisms or viruses in a
 CC sample using chimeric oligonucleotide primers, which is useful in genetic
 CC engineering and clinical medicine. This polynucleotide sequence
 CC represents an oligo relating to the novel stabilising reaction reagent
 CC method of the invention.

XX SQ Sequence 20 BP; 4 A; 1 C; 12 G; 3 T; 0 other;

Query Match 10.2%; Score 14.2; DB 1; Length 20;
 Best Local Similarity 84.2%; Pred. No. 1.3e+02;
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps C;

QY 1736 CTCCCACTCTCCCTATC 1754

Db 19 CCCCACACTCTCCAGTC 1

RESULT 51

AAA58421

ID AAA58421 standard; DNA; 20 BP.

XX AC

AAA58421;

XX DT 11-OCT-2000 (first entry)
 XX DE Oct-4 transcript RT-PCR primer #2.

XX KW Human embryonic stem cell; oct-4 expression; development;
 KW transplantation; drug screening; drug discovery; RT-PCR primer; ss.

XX OS Homo sapiens.

XX PN WO200027995-A1.

XX PD 18-MAY-2000.

XX PF 09-NOV-1999; 99WO-AU00990.

XX PR 09-NOV-1998; 98AU-0007009.

XX PR 15-SEP-1999; 99AU-0002852.

XX PA (MONU) UNIV MONASH.

XX PA (JYSI-) UNIV SINGAPORE NAT.

XX PA (HADA-) HADASIT MEDICAL RES SERVICES & DEV.

XX PI Reubinoff BE, Pera MF, Yee FC, Trounson AO, Bongso A;

XX DR WPI; 2000-376517/32.

XX PT Novel undifferentiated human embryonic stem cells which are useful as a
 PT source of novel gene products -

XX PS Disclosure; Page 31; 56pp; English.

XX CC The present sequence is a RT-PCR primer for the human oct-4 transcript.
 CC It was used to measure oct-4 expression in differentiated and
 CC undifferentiated cells. These were all derived from human embryonic stem
 CC cells. Stem cells can be used to treat inherited diseases, to study the
 CC cellular and molecular biology of early human development, in functional
 CC genomics, to identify novel growth factors and to generate differentiated
 CC cells to use in transplantation, drug screening or drug discovery in
 CC vitro.

XX SQ Sequence 20 BP; 4 A; 8 C; 3 G; 5 T; 0 other;

Query Match 10.1%; Score 14; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 1.4e+02;
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1656 GCACCAGGCTCACA 1669

Db 7 GCACCAGGCTCACA 20

RESULT 52

AAV91005/C

ID AAV91005 standard; RNA; 17 BP.

XX AC AAV91005;

XX DT 18-FEB-1999 (first entry)

XX DE Human C-raf target site nucleotide position 576.

XX KW Human; c-raf; A-raf; B-raf; hammerhead ribozyme; hairpin ribozyme;
 KW target; substrate; catalyst; modulation; expression; Raf gene;
 KW delivery; screening; identification; synthesis; deprotection;
 KW purification; cancer; inflammation; psoriasis; non-hepatic ascites;
 KW infection; genetic drift; restenosis; rheumatoid arthritis; ss.

XX OS Homo sapiens.

XX PN WO9850530-A2.

XX PD 12-NOV-1998.

Db 19 AACACCGGCTCACAGTG 1

RESULT 48
AAD05958
ID AAD05958 standard; DNA; 20 BP.
XX
AC AAD05958;
XX
AC AAD05958;
XX
DT 31-JUL-2001 (first entry)
XX
DE Human diacylglycerol kinase-zeta intron 18/exon 19 junction sequence.
XX
KW Human; catalyst; diacylglycerol; DAG; phosphatidic acid; DAG modulator;
XX diacylglycerol kinase zeta; DGK; ds.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
XX intron 1..10
FT /tag= a
FT /number= 18
FT /partial
FT 11..20
FT /tag= b
FT /number= 19
FT /partial
XX
XX US6221658-B1.
XX
XX 24-APR-2001.
XX
XX 25-AUG-1999; 99US-0382911.
XX
XX 22-APR-1996; 96US-0016210.
XX 22-APR-1997; 97US-0841483.
XX
XX (UTAH) UNIV UTAH RES FOUND.
XX
XX Prescott SM, Bunting M, Tang W, Topham M;
XX WPI; 2001-327248/34.
XX
XX New DNAs of the human diacylglycerol kinase, useful for modulating the
XX levels of diacylglycerol kinase in cells to catalyze the conversion of
XX diacylglycerol to phosphatidic acid, therefore increasing phosphatidic
XX acid levels -
XX
XX Disclosure; Column 17-18; 74pp; English.
XX
XX The patent discloses novel human diacylglycerol kinase (DGK) isoforms
XX namely diacylglycerol kinase epsilon, diacylglycerol kinase zeta,
XX diacylglycerol kinase zeta-2 and their corresponding cDNAs. Human
XX diacylglycerol kinase DNA is useful for coding human diacylglycerol
XX kinase, which is useful for catalysing the conversion of diacylglycerol
XX to phosphatidic acid. In particular, the human diacylglycerol kinase
XX and its DNA are useful for decreasing intracellular levels of diacyl-
XX glycerol (DAG) and for increasing intracellular levels of phosphatidic
XX acid in cells.
XX
XX The present DNA sequence is the exon/intron junction sequence of
XX human diacylglycerol kinase (DGK) zeta gene.
XX
XX Sequence 20 BP; 4 A; 6 C; 6 G; 4 T; 0 other;
XX
XX Query Match 10.2%; Score 14.2; DB 1; Length 20;
XX Best Local Similarity 84.2%; Pred. No. 1.3e+02;
XX Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1686 CTCCTCCAGCGTGGTGGAA 1704
2 CCCTCCAGTGTGATGGAA 20

Db

RESULT 49
AAD41746/c
ID AAD41746 standard; DNA; 20 BP.
XX
AC AAD41746;
XX
DT 30-OCT-2002 (first entry)
XX
DE Human RECQL2 antisense oligonucleotide, ISIS #137526.
XX
KW Antisense; RECQL2; Bloom's disorder; prophylaxis; infection; tumour;
XX inflammation; therapy; human; phosphorothioate; ss.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
XX modified_base 1..20
FT /tag= a
FT /mod_base= OTHER
FT /note= "Phosphorothioate backbone"
FT modified_base 1..5
FT /tag= b
FT /mod_base= OTHER
FT /note= "2'-methoxyethyl nucleotides"
FT modified_base 16..20
FT /tag= c
FT /mod_base= OTHER
FT /note= "2'-methoxyethyl nucleotides"
FT modified_base 9
FT /tag= d
FT /mod_base= m5c
FT modified_base 19..20
FT /tag= e
FT /mod_base= m5c
XX
XX US6399378-B1.
XX
XX 04-JUN-2002.
XX
XX 01-MAR-2001; 2001US-0798096.
XX
XX 01-MAR-2001; 2001US-0798096.
XX (ISIS-) ISIS PHARM INC.
XX
XX Ward DT, Watt AT;
XX
XX WPI; 2002-535979/57.
XX
XX Antisense compounds targeted to nucleic acids encoding RECQL2
XX associated with Bloom's disorder, for modulating RECQL2 expression and
XX treating diseases e.g. tumors associated with expression of the RECQL2
XX in humans -
XX
XX Example 15; Column 44; 86pp; English.
XX
XX The invention relates to antisense compounds targeted to nucleic acid
XX encoding RECQL2 (gene associated with Bloom's disorder) to inhibit the
XX expression of RECQL2. Antisense compounds of the invention are useful
XX for treating diseases associated with expression of RECQL2, in humans.
XX They are useful for diagnostics, therapeutics and as research reagent,
XX e.g. prophylactically to prevent or delay infection, inflammation or
XX tumour formation. They are also useful in antisense therapy. The
XX present sequence is an antisense oligonucleotide targeted to human
XX RECQL2 DNA.
XX
XX Sequence 20 BP; 5 A; 3 C; 7 G; 5 T; 0 other;
XX
XX Query Match 10.2%; Score 14.2; DB 1; Length 20;
XX Best Local Similarity 84.2%; Pred. No. 1.3e+02;
XX Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

CC activity for RNA. They comprise a texaphyrin metal complex bound to an
 CC internal linkage of an oligonucleotide or oligonucleotide analogue. The
 CC conjugates may be used for the destruction of retroviral RNA, messenger
 CC RNA, ribosomal RNA, RNA cofactors, transfer RNA, small nuclear RNA and
 CC small cytoplasmic RNA. They may be used for eliminating diseased or
 CC cancerous cells or tissues, in blood purification protocols (in vivo or
 CC in vitro), in antiviral treatments, or as diagnostic probes (e.g. in
 CC determination of the nucleotide sequence of RNA or to detect
 CC polymorphisms in RNA). Administration of the conjugates is, e.g., oral,
 CC topical or parenteral, especially topical or intravenous. The conjugates
 CC are especially effective under conditions where the concentration of RNA
 CC target exceeds that of available conjugate.

SQ Sequence 20 BP; 2 A; 4 C; 8 G; 6 T; 0 other;
 Query Match 10.2%; Score 14.2; DB 1; Length 20;
 Best Local Similarity 84.2%; Pred. No. 1.3e+02;
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1655 AGCACCAGGCTCACAGCTG 1673
 Db 19 AACACCCGGCTCACAGATG 1

RESULT 46

ID AAV99212/c
 ID AAV99212 standard; DNA; 20 BP.

AC AAV99212;

DT 09-MAR-1999 (first entry)

DE Antisense primer for intron boundary mapping of DNA Metase exon 35-36.

KW DNA methyltransferase; DNA Metase; antisense oligonucleotide; human;
 KW cellular growth; tumour growth inhibition; silenced gene activation;
 KW beta thalassemia; sickle cell anemia; PCR primer; ss.

OS Synthetic.
 OS Homo sapiens.

PN WO9854313-A2.

PD 03-DEC-1998.

PF 29-MAY-1998; 98WO-IB01107.

PR 17-DEC-1997; 97US-0069865.

PR 30-MAY-1997; 97WO-0866340.

PA (UYMC-) UNIV MCGILL.

PI Bigey P, Ramchandani S, Szyf M;

XX WPI; 1999-059833/05.

XX New DNA methyltransferase nucleotide sequences - used particularly
 PT to develop antisense oligonucleotides for diagnostic and therapeutic
 PT purposes, particularly for inhibiting tumour growth

XX Example 8; Page 32; 108pp; English.

XX PCR primers AAV99163-220 were used to map the intron boundaries of
 CC the exons of DNA methyltransferase (DNA Metase) genomic sequence.
 CC Antisense oligonucleotides which inhibit DNA Metase expression
 CC can be derived from the genomic DNA Metase sequence. The antisense
 CC oligonucleotides can be used in investigating the role of DNA Metase
 CC in cellular growth. They can be administered at different points in
 CC the cell cycle, or in conjugation with promoters or inhibitors of cell
 CC growth to determine the role of DNA Metase in the growth of the cell
 CC type of interest. The antisense oligonucleotides can also be used for
 CC inhibiting tumour growth in a mammal, or to activate silenced genes to
 CC provide a missing gene function. This ameliorates disease symptoms,

CC e.g. in beta thalassemia and sickle cell anemia. The antisense
 CC oligonucleotides can also be used in analytical and diagnostic tools
 CC and a potentiators of transgenic plant and animal studies.

SQ Sequence 20 BP; 5 A; 9 C; 5 G; 1 T; 0 other;

Query Match 10.2%; Score 14.2; DB 1; Length 20;
 Best Local Similarity 84.2%; Pred. No. 1.3e+02;
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1681 GSGTGTCTCTCCAGCGTGG 1699
 Db 20 GGGGTCTGCTCTGCTGG 2

RESULT 47

ID AAZ88439/c
 ID AAZ88439 standard; DNA; 20 BP.

AC AAZ88439;

DT 09-MAY-2000 (first entry)

DE Exemplary texaphyrin oligonucleotide conjugate SEQ ID NO:5.

KW Texaphyrin; metal complex; catalytic; RNA hydrolysis; virucide;
 KW antibacterial; cytostatic; antineoplastic; antitumour;
 KW antiviral; ss.

OS Synthetic.

PN US6022959-A.

PD 08-FEB-2000.

PF 20-NOV-1997; 97US-0975522.

PR 20-AUG-1996; 96US-0077185.

PR 20-AUG-1997; 97WO-US14682.

XX (PHAR-) PHARMACYCLICS INC.

XX Wright M, Crofts SP, Magda D;

XX WPI; 2000-160391/14.

XX Texaphyrin metal complex derivatized ribonucleic acids possessing
 PT hydrolytic cleavage activity against RNA are useful as e.g. antiviral,
 PT antibacterial, antitumor and antiinflammatory agents -

XX Example 4; Column 32; 30pp; English.

XX The present invention describes a conjugate with hydrolytic cleavage
 CC activity for ribonucleic acid (RNA), which comprises a texaphyrin metal
 CC complex bound to an internal linkage of an oligonucleotide or
 CC oligonucleotide analogue. AAZ88435 to AAZ88440 represent exemplary
 CC texaphyrin oligonucleotide conjugates used in the exemplification of the
 CC present invention. The novel conjugates have virucide, antibacterial,
 CC cytostatic and antiinflammatory properties, and are involved in RNA
 CC hydrolysis. The conjugates are useful for inhibiting the expression of
 CC a gene by targeted intracellular mRNA (messenger ribonucleic acid)
 CC hydrolysis. The conjugates have applications for anti-viral and
 CC anti-bacterial therapy as well as cancers and inflammatory responses
 CC caused by overexpression of certain proteins.

SQ Sequence 20 BP; 2 A; 4 C; 8 G; 6 T; 0 other;

Query Match 10.2%; Score 14.2; DB 1; Length 20;
 Best Local Similarity 84.2%; Pred. No. 1.3e+02;
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1655 AGCACCAGGCTCACAGCTG 1673
 Db 19 AACACCCGGCTCACAGATG 1

CC and feed industry, detecting comprises scanning (using e.g. a scanning
 CC electron microscope and infrared microscope) the support at the
 CC particular sites and identifying if ligation of the oligonucleotide probe
 CC sets occurred and correlating (using a computer) identified ligation to a
 CC presence or absence of the target nucleotide sequences. AB182074 to
 CC AB197546 represent oligonucleotide sequences used in the exemplification
 CC of the present invention.

XX Sequence 20 BP; 3 A; 6 C; 5 G; 6 T; 0 other;

Query Match 10.4%; Score 14.4; DB 1; Length 20;
 Best Local Similarity 93.8%; Pred. No. 1.2e+02;
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1728 GAGATTGGCTCCCAAC 1743

Db 18 GAGATTGGCTCCCAAC 3

RESULT 39

AA08224/C
 ID AA08224 standard; DNA; 20 BP.

XX

AC AA08224;

DT 23-MAY-1996 (first entry)

XX p142, PCR primer used for isolation of antisense HBV strain X region.

DE Hepatitis B virus; X region; antisense; antibody; vector; diagnosis;

KW hepatoma; hepatitis; antiviral; anticancer; transcription; ss.

XX Synthetic.

OS

PN W09527788-A1.

XX 19-OCT-1995.

PD

PF 10-APR-1995; 95WO-JP00700.

PR 11-APR-1994; 94JP-0095458.

XX (DAIN-) DAINABOT CO LTD.

PA Shikata T, Uchida T;

PI WPI; 1995-366392/47.

DR

XX Antisense DNA sequence of X region of new hepatitis B strain,
 PT related peptide(s) and antibodies - useful for diagnosis and
 PT investigation of HBV infection

XX Example 2; Page 22; 61pp; Japanese.

XX AA08224-53 are PCR primers used for the isolation and amplification
 CC of 2 antisense DNA sequences derived from the X region of a
 CC new strain of hepatitis B. The DNA codes for a viral peptide ASXP.
 CC The ASXP peptide and antibodies recognising it are useful in the
 CC diagnosis of hepatitis caused by the virus, in the investigation
 CC of transcription activated and enhanced by the presence of the ASXP
 CC peptide, and in the development of effective antiviral and anticancer
 CC drugs for the treatment of hepatitis and hepatoma.

XX Sequence 20 BP; 4 A; 1 C; 12 G; 3 T; 0 other;

Query Match 10.2%; Score 14.2; DB 1; Length 20;

Best Local Similarity 84.2%; Pred. No. 1.3e+02;

Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1736 CTCCCAACTCTCCCTATC 1754

Db 19 CCCCCAACTCTCCCAAGTC 1

RESULT 40

AA081567/C

ID AA081567 standard; DNA; 20 BP.

XX

AC AA081567;

XX

DT 04-SEP-1995 (first entry)

XX

DE Hepatitis B virus polypeptide cDNA PCR primer p142.

XX Hepatitis B virus; HBV; polypeptide; diagnosis and detection;

KW PCR primer p142; ss.

XX Synthetic.

OS

PN JP06321991-A.

XX

PD 22-NOV-1994.

XX

PF 14-MAY-1993; 93JP-0113136.

XX

PR 14-MAY-1993; 93JP-0113136.

XX

PA (MITU) MITSUBISHI KASEI CORP.

XX

DR WPI; 1995-041293/06.

XX

XX Polypeptide derived from type B hepatitis virus and gene to code

PT it - used in diagnosis of type B hepatitis virus

XX Example 2; Page 5; 13pp; Japanese.

XX

CC AA081567 and AA081568 are a pair of primers for the PCR amplification

CC of the cDNAs encoding the hepatitis B virus (HBV) polypeptides

CC described in AAR8885-R68871. The polypeptides or their fragments

CC can be used in the diagnosis and detection of HBV.

XX

SQ Sequence 20 BP; 4 A; 1 C; 12 G; 3 T; 0 other;

Query Match 10.2%; Score 14.2; DB 1; Length 20;

Best Local Similarity 84.2%; Pred. No. 1.3e+02;

Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1736 CTCCCAACTCTCCCTATC 1754

Db 19 CCCCCAACTCTCCCAAGTC 1

RESULT 41

AA080879/C

ID AA080879 standard; DNA; 20 BP.

XX

AC AA080879;

XX

DT 25-MAR-2003 (updated)

DT 30-AUG-1995 (first entry)

XX

DE Europium (III) texaphyrin (EuTx) DNA conjugate 9A.

XX

KW Europium (III) texaphyrin (EuTx) DNA conjugate 9A; liver disease;

KW targeted intracellular mRNA hydrolysis; gene expression inhibition;

KW hormone regulation; hydrolysis reagents; alkyl phosphate esters;

KW detoxification; ss.

XX Synthetic.

OS

XX Key Location/Qualifiers

PH modified_base 7

FT /*tag= a

FT /mod_base= OTHER

FT /note= "EuTx-NH(CH2)6 alkylamidated thymidine"

XX

PT Constructing strains for identifying gene products as effective targets
 PT for therapeutic intervention, by inactivating in the strain one allele
 PT of a gene and placing other allele of the gene under conditional
 PT expression -
 XX
 PS Claim 36; SEQ ID NO 5725; 167pp + Sequence Listing; English.
 XX
 CC The invention relates to constructing (M1) a strain of diploid fungal
 CC cells in which both alleles of a gene are modified, comprising modifying
 CC one allele by insertion or replacement by a cassette having an
 CC expressible selectable marker and modifying other allele by
 CC recombination, of a promoter replacement fragment with a heterologous
 CC promoter, so that expression of the second allele is regulated by the
 CC promoter. (M1) is useful for constructing a strain of diploid fungal
 CC cells in which both alleles of a gene are modified. The diploid fungal
 CC cells having both alleles modified are useful for identifying a gene that
 CC is essential to the survival or growth of a fungus, a gene that
 CC contributes to the virulence and/or pathogenicity of a fungus, a gene that
 CC that contributes to the resistance of a diploid fungus to an antifungal
 CC agent, an antifungal agent that inhibits the growth of a diploid fungus
 CC and for identifying a therapeutic agent for treatment of a mammalian
 CC disease. (M1) is useful for identifying a compound which modulates the
 CC activity of a gene product, preferably enzymatic activity, carbon
 CC compound catabolism, biosynthetic, transporter, transcriptional,
 CC translational, signal transduction, DNA replication and cell division
 CC activity. The method is useful for identifying a compound having the
 CC ability to inhibit growth or proliferation of C. albicans cells and for
 CC treating infection by C. albicans. The present sequence is that of a PCR
 CC primer used in the method of the invention.
 CC Note: The sequence data for this patent is not represented in the printed
 CC specification but is based on sequence information supplied to Derwent by
 CC the European Patent Office.
 XX
 SQ Sequence 20 BP; 4 A; 9 C; 3 G; 4 T; 0 other;

Query Match 10.4%; Score 14.4; DB 1; Length 20;
 Best Local Similarity 93.8%; Pred. No. 1.2e+02;
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1737 TCCCACTCTCTCCCTA 1752
 Db 1 TCCCACTCTCTCCCA 16

RESULT 37

ABV73609/c
 ID ABV73609 standard; DNA; 20 BP.

AC ABV73609;

DT 10-JAN-2003 (first entry)

DE S. albulus plasmid pNO33 related primer #1.

XX Plasmid; epsilon-polylysine; pNO33; PCR; primer; ss.

XX Synthetic.

XX JF2002233380-A.

XX 20-AUG-2002.

XX 08-FEB-2001; 2001JP-0031958.

XX 08-FEB-2001; 2001JP-0031958.

XX (CHCC) CHISSO CORP.

XX WPI; 2002-736476/80.

XX A nucleic acid molecule derived from a plasmid of Streptomyces albulus

PS Example 3; Page 4; 17pp; Japanese.

XX The invention relates to a DNA molecule which is derived from plasmid
 CC pNO33 of Streptomyces albulus. In the scope of the invention, a microbe
 CC host may be transformed by the vector. The vector is used for the
 CC preparation of epsilon-polylysine. The current sequence represents an
 CC S. albulus plasmid pNO33 related PCR primer sequence.

XX Sequence 20 BP; 5 A; 7 C; 3 G; 5 T; 0 other;

Query Match 10.4%; Score 14.4; DB 1; Length 20;
 Best Local Similarity 93.8%; Pred. No. 1.2e+02;
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1636 GGCCTTGTAGCAGAAG 1651

Db 17 GGCCTTGTAGCAGATG 2

RESULT 38

ABI93783/c

ID ABI93783 standard; DNA; 20 BP.

XX AC ABI93783;

XX DT 16-FEB-2002 (first entry)

DE Capture oligonucleotide Zip ID#870 oligo #9.

XX Human; K-ras; PCR primer; probe; capture probe; mutation detection;
 KW ligase detection reaction; LDR; p53; BRCA2; infectious disease;
 KW infection; 21 hydroxylase deficiency; Turner Syndrome; obesity;
 KW cancer; oncogene; tumour suppressor; human papillomavirus; forensic;
 KW environmental monitoring; food industry; feed industry; ss.

XX Synthetic.

XX PN WO200179548-A2.

XX PD 25-OCT-2001.

XX PF 04-APR-2001; 2001WO-US10958.

XX PR 14-APR-2000; 2000US-197271P.

XX (CORR) CORNELL RES FOUND INC.

XX Barany F, Zirvi M, Gerry NP, Favis R, Kliman R;

XX WPI; 2002-034366/04.

XX Designing capture oligonucleotide probes for use on a support to which
 PT complementary oligonucleotides hybridize with little mismatch -

XX Example 5; Fig 29; 300pp; English.

XX The present invention describes a method (M1) for designing capture
 CC oligonucleotide probes (I) for use on a support to which complementary
 CC oligonucleotide probes (II) will hybridize with little mismatch, where
 CC (I) have melting temperatures within a narrow range. The method is useful
 CC for detecting infectious diseases caused by bacterial infectious agents
 CC e.g. Salmonella, Listeria monocytogenes and Haemophilus influenzae, fungal
 CC infectious agents e.g. Cryptococcus neoformans, Candida albicans and
 CC Aspergillus fumigatus, viruses e.g. T-cell lymphocytotropic virus,
 CC Epstein-Barr virus and polio virus, and parasitic infectious agents,
 CC selected from Onchocerca volvulus, Entamoeba histolytica and Dracunculus
 CC medinensis. The method is also useful for detecting genetic diseases such
 CC as 21 hydroxylase deficiency, Turner Syndrome and obesity defects.
 CC Detecting cancer involving oncogenes, tumour suppressor genes, or genes
 CC involved in DNA amplification, replication, recombination or repair, the
 CC cancer is specifically associated with a gene selected from BRCA1 gene,
 CC p53 gene, human papillomavirus types 16 and 18 and liver cancers. The
 CC method is also used for environmental monitoring, forensics and the food

PT cardiovascular and autoimmune diseases -
 XX
 XX Example 3; Page 911; 977pp; English.

XX The invention relates to an isolated nucleic acid from a human gene
 CC encoding aminopeptidase P (XPNPE2), bradykinin receptor B1 (BDRKB1),
 CC tachykinin receptor B1 (TACR1), C1 esterase inhibitor (CLNH), kallikrein
 CC 1 (KLK1), bradykinin receptor B2 (BKR2), angiotensin converting enzyme
 CC 2 (ACE2) or protease inhibitor 4 (PI4), comprising at least one
 CC polymorphic position. Also included are (1) a probe that hybridises to a
 CC polymorphic position as provided in the detailed summary of single
 CC nucleotide polymorphisms comprising additional 5' and 3' flanking genomic
 CC sequence; (2) analysing (M1) at least one nucleic acid sample comprising
 CC obtaining the sample from one or more individuals and determining the
 CC nucleic acid sequence at one or more polymorphic positions in a gene
 CC encoding a protein selected from the group above; (3) constructing (M2)
 CC haplotypes using the genes comprising grouping at least two nucleic
 CC acids; (4) identifying (M3) an individual at risk of developing a
 CC disorder upon administration of an ACE inhibitor and/or vasopeptidase
 CC inhibitor using the polymorphic data; (5) a library of nucleic acids,
 CC each of which comprises one or more polymorphic positions within a gene
 CC encoding a human protein selected from the group above; and (6)
 CC genotyping (M4) an individual comprising obtaining a nucleic acid sample,
 CC determining the nucleotide present in at least one polymorphic position,
 CC and comparing at least one position with a known data set. The genes,
 CC (M1, M2, M3 and M4) and compositions are useful for detecting,
 CC diagnosing, treating, and preventing various disorders such as angioedema
 CC and diseases which involve angiogenesis like haemangiomas, tumours,
 CC sarcomas, Crohn's disease, trachomas, and cardiovascular diseases like
 CC angina pectoris, hypertension, heart failure, myocardial infarction,
 CC ventricular hypertrophy, vascular diseases, aneurysm, embolism,
 CC thrombosis, coronary artery disease, arteriosclerosis and/or
 CC atherosclerosis, and hypersensitivity reactions, sepsis, autoimmune
 CC diseases, inflammatory arthritis, cancer, wounds, viral, bacterial or
 CC fungal infection, chronic obstructive pulmonary disease (COPD) and
 CC enterocolitis (many other diseases and disorders are listed in the
 CC specification). The polynucleotides are also useful for chromosome
 CC identification. Antibodies against the proteins may be utilised for
 CC immunophenotyping of cell lines and biological samples. The present
 CC sequence is a genotyping PCR primer for the gene encoding
 CC one of the proteins listed above.

XX Sequence 20 BP; 5 A; 6 C; 6 G; 3 T; 0 other;

Query Match 10.6%; Score 14.8; DB 1; Length 20;
 Best Local Similarity 88.9%; Pred. No. 98;
 Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1669 AGCTGGAACCTGTGTC 1686
 Db 19 AGCTGGAACCTGTGTC 2

RESULT 35
 ABL58444
 ID ABL58444 standard; DNA; 18 BP.

XX ABL58444;

XX 30-JUL-2002 (first entry)

XX Cyp-C probe generating primer.

XX Embryoid body; stem cel; MAMA; gynecological; medicine; RT-PCR; primer;
 XX Galectin-3; cyp-C; ss.

XX Synthetic.

XX WO200165928-A1.

XX 13-SEP-2001.

XX 09-MAR-2000; 2000WO-IB00246.

XX 09-MAR-2000; 2000WO-IB00246.

XX (CHIC/) CHICHEPORTICHE Y.

XX Chicheportiche Y, Ody C;

XX WPI; 2002-055092/07.

XX Promoting (M1) the success rate of in vitro production of embryoid
 PT bodies from mammalian embryonic stem cells useful for regenerative
 PT medicine comprises increasing the quantity of MAMA -

XX Disclosure; Page 14; 32pp; English.

XX The invention relates to a method of promoting the success rate of in
 CC vitro production of embryoid bodies from mammalian embryonic stem cells
 CC by increasing the quantity of MAMA or its homologues. MAMA is useful as
 CC an agent of differentiation in an in vitro culture medium of mammalian
 CC embryonic stem cells. An in vitro culture medium which contain MAMA and
 CC the methods are useful for promoting the success rate of in vitro
 CC production of embryoid bodies from embryonic stem cells which contain
 CC MAMA. MAMA, cultures and vectors containing MAMA and the methods may be
 CC used for regenerative medicine. MAMA may be used as a promoter of the
 CC implantation of eggs obtained in vitro and to promote the successful
 CC attachment of in vitro-fertilized eggs to the uterine membrane. The
 CC present sequence represents a primer used for generating cyp-C specific
 CC probes by RT-PCR, for northern hybridisation analysis of MAMA, galectin-3
 CC and cyp-C mRNAs in transfected embryonic stem cells.

XX Sequence 18 BP; 1 A; 4 C; 6 G; 7 T; 0 other;

Query Match 10.4%; Score 14.4; DB 1; Length 18;
 Best Local Similarity 93.8%; Pred. No. 97;
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1672 TGGAACCTGTGTC 1687
 Db 2 TGGAGCCCTGTGTC 17

RESULT 36

ABZ31506

XX ABZ31506 standard; DNA; 20 BP.

XX ABZ31506;

XX 30-JAN-2003 (first entry)

XX Candida albicans GRACE strain PCR primer SEQ ID NO 5725.

XX Fungus; yeast; tetracyclin; promoter; GRACE strain; biosynthesis;
 XX signal transduction; DNA replication; cell division; growth;
 XX proliferation; Candida albicans; fungicide; antifungal; PCR; primer; ss.

XX Candida albicans.

XX WO200253728-A2.

XX 11-JUL-2002.

XX 26-DEC-2001; 2001WO-US49486.

XX 29-DEC-2000; 2000US-259128P.

XX 20-FEB-2001; 2001US-0792024.

XX 22-AUG-2001; 2001US-314050P.

XX (ELIT-) ELITRA PHARM INC.

XX Roemer T, Jiang B, Boone C, Bussey H, Ohlsen KL;

XX WPI; 2002-566694/60.

CC levels of CETP, specifically familial hypercholesterolaemia,
 CC atherosclerosis, peripheral vascular disease, hyperbetalipoproteinaemia,
 CC hypopalipoproteinaemia, dyslipidaemia, vascular complications of
 CC diabetes, transplant, atherectomy and angioplastic restenosis. By
 CC inhibiting CETP, the levels of HDL and low density lipoproteins (LDL),
 CC and the HDL:LDL ratio are favourably altered (a decrease in LDL levels,
 CC and a corresponding increase in HDL levels). The HH ribozymes can also
 CC be used diagnostically to study genetic drift and mutations in diseased
 CC cells, and to detect CETP mRNA. As the HH ribozymes target specific
 CC regions of the CETP gene, they have low non-specific activity.
 XX
 SQ Sequence 15 BP; 4 A; 2 C; 6 G; 3 U; 0 other;
 Query Match 10.8%; Score 15; DB 1; Length 15;
 Best Local Similarity 80.0%; Pred. No. 53;
 Matches 12; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
 Qy 1637 GGCTTGTAGCAGAG 1651
 Db 1 GGCUGUAGCAGAG 15
 RESULT 33
 AAT49813 ID AAT49813 standard; RNA; 15 BP.
 XX
 AC AAT49813;
 XX
 DT 18-MAR-1997 (first entry)
 XX
 DE Human CETP HH ribozyme target sequence #1656.
 XX
 KW Hammerhead ribozyme; cholesterol ester transfer protein; mRNA cleavage;
 KW neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;
 KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;
 KW familial hypercholesterolaemia; dyslipidaemia; hypopalipoproteinaemia;
 KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;
 KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;
 KW LDL; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO9620279-A1.
 XX
 PD 04-JUL-1996.
 XX
 PF 11-DEC-1995; 95WO-US16000.
 XX
 PR 23-DEC-1994; 94US-0363240.
 XX
 PA (RIBO-) RIBOZYME PHARM INC.
 PA (WARN) WARNER LAMBERT CO.
 XX
 PI Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;
 XX
 DR WPI; 1996-321852/32.
 XX
 PT New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA
 PT - useful for preventing or treating initial development, progression
 PT or regression of vascular diseases, esp. familial
 PT hypercholesterolaemia
 XX
 PS Claim 4; Page 32; 72pp; English.
 XX
 CC AAT49608-T49863 represent target sequences for the human cholesterol
 CC ester transfer protein (CETP) hammerhead (HH) ribozymes (see
 CC AAT49881-T50137). CETP is a 74 kD glycoprotein that facilitates neutral
 CC lipid transfer between plasma lipoproteins. The numbering of the targets
 CC refers to the position of the cleavage site in full length CETP. The
 CC ribozyme binds to 5 nucleotides either side of this site, provided the
 CC sequence UH is immediately upstream. The ribozymes are able to cleave
 CC mRNA from the gene encoding CETP, thereby blocking synthesis and/or
 CC expression of the mRNA. By inhibiting CETP, the reverse cholesterol

CC transport (RCT) pathway can be inhibited (or eliminated) thereby
 CC preventing the reduction in size density of the high density lipoproteins
 CC (HDL), prolonging HDL half life, and therefore increasing HDL levels.
 CC The ribozymes can be used to treat conditions associated with abnormal
 CC levels of CETP, specifically familial hypercholesterolaemia,
 CC atherosclerosis, peripheral vascular disease, hyperbetalipoproteinaemia,
 CC hypopalipoproteinaemia, dyslipidaemia, vascular complications of
 CC diabetes, transplant, atherectomy and angioplastic restenosis. By
 CC inhibiting CETP, the levels of HDL and low density lipoproteins (LDL),
 CC and the HDL:LDL ratio are favourably altered (a decrease in LDL levels,
 CC and a corresponding increase in HDL levels). The HH ribozymes can also
 CC be used diagnostically to study genetic drift and mutations in diseased
 CC cells, and to detect CETP mRNA. As the HH ribozymes target specific
 CC regions of the CETP gene, they have low non-specific activity.
 XX
 SQ Sequence 15 BP; 3 A; 6 C; 4 G; 2 U; 0 other;
 Query Match 10.8%; Score 15; DB 1; Length 15;
 Best Local Similarity 86.7%; Pred. No. 53;
 Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
 Qy 1659 CCAGGCTCACAGCTG 1673
 Db 1 CCAGGCTCACAGCTG 15
 RESULT 34
 ABS60987/C
 ID ABS60987 standard; DNA; 20 BP.
 XX
 AC ABS60987;
 XX
 DT 05-NOV-2002 (first entry)
 XX
 DE Human genotyping PCR primer #140.
 XX
 KW Human; ss; aminopeptidase 2; XPNP2; bradykinin receptor B1; primer;
 KW BKRBI; tachykinin receptor B1; TACR1; C1 esterase inhibitor; C1NH;
 KW kallikrein 1; KLK1; bradykinin receptor B2; BKR2; gene therapy;
 KW angiotensin converting enzyme 2; ACE2; protease inhibitor 4; PI4;
 KW polymorphism; haemangioma; tumour; sarcoma; Crohn's disease; trachoma;
 KW cardiovascular disease; angina pectoris; hypertension; heart failure;
 KW myocardial infarction; ventricular hypertrophy; vascular disease;
 KW aneurysm; embolism; thrombosis; coronary artery disease; angiodaema;
 KW arteriosclerosis; atherosclerosis; hypersensitivity; sepsis; PCR;
 KW autoimmune disease; inflammatory arthritis; cancer; wound; genotyping;
 KW viral infection; bacterial infection; fungal infection; COPD;
 KW Chronic obstructive pulmonary disease; enterocolitis.
 XX
 OS Homo sapiens.
 XX
 PN WO200261131-A2.
 XX
 PD 08-AUG-2002.
 XX
 PF 03-DEC-2001; 2001WO-US47235.
 XX
 PR 04-DEC-2000; 2000US-251015P.
 PR 23-JAN-2001; 2001US-263678P.
 PR 02-MAR-2001; 2001US-273037P.
 XX
 PA (BRIM) BRISTOL-MYERS SQUIBB CO.
 PA (TSUC/) TSUCHIHASHI Z.
 PA (HUIL/) HUI L.
 XX
 PI Tsuchihashi Z, Hui L, Zerba KE, Ma-Edmonds M, Perrone MH;
 PI Swanson BN, Powell JR;
 XX
 DR WPI; 2002-619285/66.
 XX
 PT New isolated nucleic acid with at least one polymorphic position,
 PT useful for detecting, diagnosing and treating disorders such as
 PT angiodema, cancer, viral, bacterial or fungal infection,

CC cells, and to detect CETP mRNA. As the HH ribozymes target specific
 CC regions of the CETP gene, they have low non-specific activity.

XX Sequence 15 BP; 4 A; 6 C; 2 G; 3 U; 0 other;

Query Match 10.8%; Score 15; DB 1; Length 15;
 Best Local Similarity 80.0%; Pred. No. 53;
 Matches 12; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1750 CTATCCTAAGGCC 1764

Db 1 CUAGCUAAGGCC 15

RESULT 31

AAT49809

ID AAT49809 standard; RNA; 15 BP.

AC AAT49809;

DT 18-MAR-1997 (first entry)

Human CETP HH ribozyme target sequence #1641.

Hammerhead ribozyme; cholesterol ester transfer protein; mRNA cleavage;
 neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;
 reverse cholesterol transport; high density lipoprotein; therapy; CETP;
 familial hypercholesterolaemia; dyslipidaemia; hypolipoproteinaemia;
 peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;
 angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;
 LDL; ss.

OS Homo sapiens.

XX WO9620279-A1.

PN 04-JUL-1996.

PD 11-DEC-1995; 95WO-US16000.

PF 23-DEC-1994; 94US-0363240.

PR (RIBO-) RIBOZYME PHARM INC.

PA (WARN) WARNER LAMBERT CO.

PI Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;

XX WPI; 1996-321852/32.

New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA
 - useful for preventing or treating initial development, progression
 or regression of vascular diseases, esp. familial
 hypercholesterolaemia

Claim 4; Page 32; 72pp; English.

AAT49608-T49863 represent target sequences for the human cholesterol
 ester transfer protein (CETP) hammerhead (HH) ribozymes (see
 AAT4981-T50137). CETP is a 74 kD glycoprotein that facilitates neutral
 lipid transfer between plasma lipoproteins. The numbering of the targets
 refers to the position of the cleavage site in full length CETP. The
 ribozyme binds to 5 nucleotides either side of this site, provided the
 sequence UH is immediately upstream. The ribozymes are able to cleave
 mRNA from the gene encoding CETP, thereby blocking synthesis and/or
 expression of the mRNA. By inhibiting CETP, the reverse cholesterol
 transport (RCT) pathway can be inhibited (or eliminated) thereby
 preventing the reduction in size density of the high density lipoproteins
 (HDL), prolonging HDL half life, and therefore increasing HDL levels.
 The ribozymes can be used to treat conditions associated with abnormal
 levels of CETP, specifically familial hypercholesterolaemia,
 atherosclerosis, peripheral vascular disease, hyperbetalipoproteinaemia,
 hypolipoproteinaemia, dyslipidaemia, vascular complications of
 diabetes, transplant, atherectomy and angioplastic restenosis. By

CC inhibiting CETP, the levels of HDL and low density lipoproteins (LDL),
 CC and the HDL:LDL ratio are favourably altered (a decrease in LDL levels,
 CC a corresponding increase in HDL levels). The HH ribozymes can also
 CC be used diagnostically to study genetic drift and mutations in diseased
 CC cells, and to detect CETP mRNA. As the HH ribozymes target specific
 CC regions of the CETP gene, they have low non-specific activity.

XX Sequence 15 BP; 2 A; 2 C; 7 G; 4 U; 0 other;

Query Match 10.8%; Score 15; DB 1; Length 15;

Best Local Similarity 73.3%; Pred. No. 53;

Matches 11; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1634 TGGGCTTGTCAG 1648

Db 1 UGGGCUUGAGCAG 15

RESULT 32

AAT49811

ID AAT49811 standard; RNA; 15 BP.

AC AAT49811;

DT 18-MAR-1997 (first entry)

Human CETP HH ribozyme target sequence #1644.

Hammerhead ribozyme; cholesterol ester transfer protein; mRNA cleavage;
 neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;
 reverse cholesterol transport; high density lipoprotein; therapy; CETP;
 familial hypercholesterolaemia; dyslipidaemia; hypolipoproteinaemia;
 peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;
 angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;
 LDL; ss.

OS Homo sapiens.

XX WO9620279-A1.

PN 04-JUL-1996.

PD 11-DEC-1995; 95WO-US16000.

PR 23-DEC-1994; 94US-0363240.

PA (RIBO-) RIBOZYME PHARM INC.

PA (WARN) WARNER LAMBERT CO.

PI Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;

XX WPI; 1996-321852/32.

New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA
 - useful for preventing or treating initial development, progression
 or regression of vascular diseases, esp. familial
 hypercholesterolaemia

Claim 4; Page 32; 72pp; English.

AAT49608-T49863 represent target sequences for the human cholesterol
 ester transfer protein (CETP) hammerhead (HH) ribozymes (see
 AAT4981-T50137). CETP is a 74 kD glycoprotein that facilitates neutral
 lipid transfer between plasma lipoproteins. The numbering of the targets
 refers to the position of the cleavage site in full length CETP. The
 ribozyme binds to 5 nucleotides either side of this site, provided the
 sequence UH is immediately upstream. The ribozymes are able to cleave
 mRNA from the gene encoding CETP, thereby blocking synthesis and/or
 expression of the mRNA. By inhibiting CETP, the reverse cholesterol
 transport (RCT) pathway can be inhibited (or eliminated) thereby
 preventing the reduction in size density of the high density lipoproteins
 (HDL), prolonging HDL half life, and therefore increasing HDL levels.
 The ribozymes can be used to treat conditions associated with abnormal

QY 1745 CCTCCTATCCTAAA 1759
 Best Local Similarity 73.3%; Pred. No. 53;
 Matches 11; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
 1 CCUCCUUAUCCUAAA 15

RESULT 29
 AAT49839
 ID AAT49839 standard; RNA; 15 BP.
 XX AAT49839;
 AC AAT49839;
 DT 07-MAR-1997 (first entry)
 DE Human CERP HH ribozyme target sequence #1754.
 XX Hammerhead ribozyme; cholesterol ester transfer protein; mRNA cleavage;
 KW neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;
 KW reverse cholesterol transport; high density lipoprotein; therapy; CERP;
 KW familial hypercholesterolaemia; dyslipidaemia; hypopalipoproteinaemia;
 KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;
 KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;
 KW LDL; ss.
 XX Homo sapiens.
 OS Homo sapiens.
 PN WO9620279-A1.
 XX 04-JUL-1996.
 PD 11-DEC-1995; 95WO-US16000.
 PF 23-DEC-1994; 94US-0363240.
 PR (RIBO-) RIBOZYME PHARM INC.
 PA (WARN) WARNER LAMBERT CO.
 XX Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;
 WI; 1996-321852/32.
 DR New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA
 PT - useful for preventing or treating initial development, progression
 PT or regression of vascular diseases, esp. familial
 PT hypercholesterolaemia
 PS Claim 4; Page 32; 72pp; English.
 XX AAT49608-T49863 represent target sequences for the human cholesterol
 CC ester transfer protein (CERP) hammerhead (HH) ribozymes (see
 CC AAT4981-T50137). CERP is a 74 kD glycoprotein that facilitates neutral
 CC lipid transfer between plasma lipoproteins. The numbering of the targets
 CC refers to the position of the cleavage site in full length CERP. The
 CC ribozyme binds to 5 nucleotides either side of this site, provided the
 CC sequence UH is immediately upstream. The ribozymes are able to cleave
 CC mRNA from the gene encoding CERP, thereby blocking synthesis and/or
 CC expression of the mRNA. By inhibiting CERP, the reverse cholesterol
 CC transport (RCT) pathway can be inhibited (or eliminated) thereby
 CC preventing the reduction in size density of the high density lipoproteins
 CC (HDL), prolonging HDL half life, and therefore increasing HDL levels.
 CC The ribozymes can be used to treat conditions associated with abnormal
 CC levels of CERP, specifically familial hypercholesterolaemia,
 CC atherosclerosis, peripheral vascular disease, hyperbetalipoproteinaemia,
 CC hypopalipoproteinaemia, dyslipidaemia, vascular complications of
 CC diabetes, transplant, atherectomy and angioplastic restenosis. By
 CC inhibiting CERP, the levels of HDL and low density lipoproteins (LDL),
 CC and the HDL:LDL ratio are favourably altered (a decrease in LDL levels,
 CC and a corresponding increase in HDL levels). The HH ribozymes can also
 CC be used diagnostically to study genetic drift and mutations in diseased
 CC cells, and to detect CERP mRNA. As the HH ribozymes target specific
 CC regions of the CERP gene, they have low non-specific activity.
 XX Sequence 15 BP; 4 A; 5 C; 2 G; 4 U; 0 other;

Query Match 10.8%; Score 15; DB 1; Length 15;
 Best Local Similarity 73.3%; Pred. No. 53;
 Matches 11; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
 1 UCCCUUAUCCUAAAAGG 15

QY 1747 TCCTATCCTAAAAGG 1761
 Db 1 UCCCUUAUCCUAAAAGG 15

RESULT 30
 AAT49841
 ID AAT49841 standard; RNA; 15 BP.
 XX AAT49841;
 AC AAT49841;
 DT 07-MAR-1997 (first entry)
 DE Human CERP HH ribozyme target sequence #1757.
 XX Hammerhead ribozyme; cholesterol ester transfer protein; mRNA cleavage;
 KW neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;
 KW reverse cholesterol transport; high density lipoprotein; therapy; CERP;
 KW familial hypercholesterolaemia; dyslipidaemia; hypopalipoproteinaemia;
 KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;
 KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;
 KW LDL; ss.
 XX Homo sapiens.
 OS Homo sapiens.
 PN WO9620279-A1.
 XX 04-JUL-1996.
 PD 11-DEC-1995; 95WO-US16000.
 PF 23-DEC-1994; 94US-0363240.
 PR (RIBO-) RIBOZYME PHARM INC.
 PA (WARN) WARNER LAMBERT CO.
 XX Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;
 WI; 1996-321852/32.
 DR New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA
 PT - useful for preventing or treating initial development, progression
 PT or regression of vascular diseases, esp. familial
 PT hypercholesterolaemia
 PS Claim 4; Page 32; 72pp; English.
 XX AAT49608-T49863 represent target sequences for the human cholesterol
 CC ester transfer protein (CERP) hammerhead (HH) ribozymes (see
 CC AAT4981-T50137). CERP is a 74 kD glycoprotein that facilitates neutral
 CC lipid transfer between plasma lipoproteins. The numbering of the targets
 CC refers to the position of the cleavage site in full length CERP. The
 CC ribozyme binds to 5 nucleotides either side of this site, provided the
 CC sequence UH is immediately upstream. The ribozymes are able to cleave
 CC mRNA from the gene encoding CERP, thereby blocking synthesis and/or
 CC expression of the mRNA. By inhibiting CERP, the reverse cholesterol
 CC transport (RCT) pathway can be inhibited (or eliminated) thereby
 CC preventing the reduction in size density of the high density lipoproteins
 CC (HDL), prolonging HDL half life, and therefore increasing HDL levels.
 CC The ribozymes can be used to treat conditions associated with abnormal
 CC levels of CERP, specifically familial hypercholesterolaemia,
 CC atherosclerosis, peripheral vascular disease, hyperbetalipoproteinaemia,
 CC hypopalipoproteinaemia, dyslipidaemia, vascular complications of
 CC diabetes, transplant, atherectomy and angioplastic restenosis. By
 CC inhibiting CERP, the levels of HDL and low density lipoproteins (LDL),
 CC and the HDL:LDL ratio are favourably altered (a decrease in LDL levels,
 CC and a corresponding increase in HDL levels). The HH ribozymes can also
 CC be used diagnostically to study genetic drift and mutations in diseased
 CC cells, and to detect CERP mRNA. As the HH ribozymes target specific
 CC regions of the CERP gene, they have low non-specific activity.
 XX Sequence 15 BP; 4 A; 5 C; 2 G; 4 U; 0 other;

ID AAT49835 standard; RNA; 15 BP.

AC AAT49835;

DT 07-MAR-1997 (first entry)

DE Human CETP HH ribozyme target sequence #1748.

XX Hammerhead ribozyme; cholesterol ester transfer protein; mRNA cleavage;
 KW neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;
 KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;
 KW familial hypercholesterolaemia; dyslipidaemia; hypobetalipoproteinaemia;
 KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;
 KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;
 KW LDL; ss.

OS Homo sapiens.

PN WO9620279-A1.

PD 04-JUL-1996.

PF 11-DEC-1995; 95WO-US16000.

PR 23-DEC-1994; 94US-0363240.

PA (RIBO-) RIBOZYME PHARM INC.
 (WARN) WARNER LAMBERT CO.

XX Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;
 PI WPI; 1996-321852/32.

DR New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA

PT - useful for preventing or treating initial development, progression
 PT or regression of vascular diseases, esp. familial
 PT hypercholesterolaemia

XX Claim 4; Page 32; 72pp; English.

XX AAT49608-T49863 represent target sequences for the human cholesterol
 CC ester transfer protein (CETP) hammerhead (HH) ribozymes (see
 CC AAT49881-T50137). CETP is a 74 kD glycoprotein that facilitates neutral
 CC lipid transfer between plasma lipoproteins. The numbering of the targets
 CC refers to the position of the cleavage site in full length CETP. The
 CC ribozyme binds to 5 nucleotides either side of this site, provided the
 CC sequence UH is immediately upstream. The ribozymes are able to cleave
 CC mRNA from the gene encoding CETP, thereby blocking synthesis and/or
 CC transport (RCT) pathway can be inhibited (or eliminated) thereby
 CC preventing the reduction in size density of the high density lipoproteins
 CC (HDL), prolonging HDL half life, and therefore increasing HDL levels.
 CC The ribozymes can be used to treat conditions associated with abnormal
 CC levels of CETP, specifically familial hypercholesterolaemia,
 CC atherosclerosis, peripheral vascular disease, hyperbetalipoproteinaemia,
 CC hypobetalipoproteinaemia, dyslipidaemia, vascular complications of
 CC diabetes, transplant, atherectomy and angioplastic restenosis. By
 CC inhibiting CETP, the levels of HDL and low density lipoproteins (LDL),
 CC and the HDL:LDL ratio are favourably altered (a decrease in LDL levels,
 CC and a corresponding increase in HDL levels). The HH ribozymes can also
 CC be used diagnostically to study genetic drift and mutations in diseased
 CC cells, and to detect CETP mRNA. As the HH ribozymes target specific
 CC regions of the CETP gene, they have low non-specific activity.

XX Sequence 15 BP; 3 A; 8 C; 0 G; 4 U; 0 other;

Query Match 10.8%; Score 15; DB 1; Length 15;

Best Local Similarity 73.3%; Pred. No. 53;

Matches 11; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1741 AACTCCTCCCTATCC 1755

|||||:|||||

Db 1 AACUCCUCCUAUCC 15

RESULT 28

AAT49837

ID AAT49837 standard; RNA; 15 BP.

XX AAT49837;

AC AAT49837;

DT 07-MAR-1997 (first entry)

DE Human CETP HH ribozyme target sequence #1752.

XX Hammerhead ribozyme; cholesterol ester transfer protein; mRNA cleavage;
 KW neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;
 KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;
 KW familial hypercholesterolaemia; dyslipidaemia; hypobetalipoproteinaemia;
 KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;
 KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;
 KW LDL; ss.

OS Homo sapiens.

PN WO9620279-A1.

PD 04-JUL-1996.

PF 11-DEC-1995; 95WO-US16000.

PR 23-DEC-1994; 94US-0363240.

PA (RIBO-) RIBOZYME PHARM INC.
 (WARN) WARNER LAMBERT CO.

XX Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;
 PI WPI; 1996-321852/32.

DR New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA

PT - useful for preventing or treating initial development, progression
 PT or regression of vascular diseases, esp. familial
 PT hypercholesterolaemia

XX Claim 4; Page 32; 72pp; English.

XX AAT49608-T49863 represent target sequences for the human cholesterol
 CC ester transfer protein (CETP) hammerhead (HH) ribozymes (see
 CC AAT49881-T50137). CETP is a 74 kD glycoprotein that facilitates neutral
 CC lipid transfer between plasma lipoproteins. The numbering of the targets
 CC refers to the position of the cleavage site in full length CETP. The
 CC ribozyme binds to 5 nucleotides either side of this site, provided the
 CC sequence UH is immediately upstream. The ribozymes are able to cleave
 CC mRNA from the gene encoding CETP, thereby blocking synthesis and/or
 CC expression of the mRNA. By inhibiting CETP, the reverse cholesterol
 CC transport (RCT) pathway can be inhibited (or eliminated) thereby
 CC preventing the reduction in size density of the high density lipoproteins
 CC (HDL), prolonging HDL half life, and therefore increasing HDL levels.
 CC The ribozymes can be used to treat conditions associated with abnormal
 CC levels of CETP, specifically familial hypercholesterolaemia,
 CC atherosclerosis, peripheral vascular disease, hyperbetalipoproteinaemia,
 CC hypobetalipoproteinaemia, dyslipidaemia, vascular complications of
 CC diabetes, transplant, atherectomy and angioplastic restenosis. By
 CC inhibiting CETP, the levels of HDL and low density lipoproteins (LDL),
 CC and the HDL:LDL ratio are favourably altered (a decrease in LDL levels,
 CC and a corresponding increase in HDL levels). The HH ribozymes can also
 CC be used diagnostically to study genetic drift and mutations in diseased
 CC cells, and to detect CETP mRNA. As the HH ribozymes target specific
 CC regions of the CETP gene, they have low non-specific activity.

XX Sequence 15 BP; 4 A; 7 C; 0 G; 4 U; 0 other;

Query Match 10.8%; Score 15; DB 1; Length 15;

Best Local Similarity 73.3%; Pred. No. 53;

Matches 11; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

KW Hammerhead ribozyme; cholesterol ester transfer protein; mRNA cleavage;
 KW neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;
 KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;
 KW familial hypercholesterolaemia; dyslipidaemia; hypoalphalipoproteinaemia;
 KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;
 KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;
 KW LDL; ss.
 XX Homo sapiens.
 OS
 XX
 XX WO9620279-A1.
 PD 04-JUL-1996.
 XX
 XX 11-DEC-1995; 95WO-US16000.
 PF
 XX 23-DEC-1994; 94US-0363240.
 XX
 XX (RIBO-) RIBOZYME PHARM INC.
 PA (WARN) WARNER LAMBERT CO.
 XX
 XX Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;
 XX WPI; 1996-321852/32.
 XX
 XX New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA
 PT - useful for preventing or treating initial development, progression
 PT or regression of vascular diseases, esp. familial
 PT hypercholesterolaemia
 XX
 XX Claim 4; Page 32; 72pp; English.
 PS
 XX AAT49608-T49863 represent target sequences for the human cholesterol
 CC ester transfer protein (CETP) hammerhead (HH) ribozymes (see
 CC AAT4981-T50137). CETP is a 74 kD glycoprotein that facilitates neutral
 CC lipid transfer between plasma lipoproteins. The numbering of the targets
 CC refers to the position of the cleavage site in full length CETP. The
 CC ribozyme binds to 5 nucleotides either side of this site, provided the
 CC sequence UH is immediately upstream. The ribozymes are able to cleave
 CC mRNA from the gene encoding CETP, thereby blocking synthesis and/or
 CC expression of the mRNA. By inhibiting CETP, the reverse cholesterol
 CC transport (RCT) pathway can be inhibited (or eliminated) thereby
 CC preventing the reduction in size density of the high density lipoproteins
 CC (HDL), prolonging HDL half life, and therefore increasing HDL levels.
 CC The ribozymes can be used to treat conditions associated with abnormal
 CC levels of CETP, specifically familial hypercholesterolaemia,
 CC atherosclerosis, peripheral vascular disease, hyperbetalipoproteinaemia,
 CC hypoalphalipoproteinaemia, dyslipidaemia, vascular complications of
 CC diabetes, transplant, atherectomy and angioplastic restenosis. By
 CC inhibiting CETP, the levels of HDL and low density lipoproteins (LDL),
 CC and the HDL:LDL ratio are favourably altered (a decrease in LDL levels,
 CC and a corresponding increase in HDL levels). The HH ribozymes can also
 CC be used diagnostically to study genetic drift and mutations in diseased
 CC cells, and to detect CETP mRNA. As the HH ribozymes target specific
 CC regions of the CETP gene, they have low non-specific activity.
 XX
 XX Sequence 15 BP; 3 A; 6 C; 2 G; 4 U; 0 other;
 SQ
 Query Match 10.8%; Score 15; DB 1; Length 15;
 Best Local Similarity 73.3%; Pred. No. 53;
 Matches 11; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
 QY 1731 ATTGGCTCCCACTC 1745
 Db 1 AUGGGCCUCCAAUC 15
 RESULT 26
 ID AAT49833
 XX AAT49833 standard; RNA; 15 BP.
 AC AAT49833;
 XX

DT 07-MAR-1997 (first entry)
 XX Human CETP HH ribozyme target sequence #1745.
 DE
 XX Hammerhead ribozyme; cholesterol ester transfer protein; mRNA cleavage;
 KW neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;
 KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;
 KW familial hypercholesterolaemia; dyslipidaemia; hypoalphalipoproteinaemia;
 KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;
 KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;
 KW LDL; ss.
 XX Homo sapiens.
 OS
 XX
 XX WO9620279-A1.
 PD 04-JUL-1996.
 XX
 XX 11-DEC-1995; 95WO-US16000.
 PF
 XX 23-DEC-1994; 94US-0363240.
 XX
 XX (RIBO-) RIBOZYME PHARM INC.
 PA (WARN) WARNER LAMBERT CO.
 XX
 XX Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;
 XX WPI; 1996-321852/32.
 XX
 XX New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA
 PT - useful for preventing or treating initial development, progression
 PT or regression of vascular diseases, esp. familial
 PT hypercholesterolaemia
 XX
 XX Claim 4; Page 32; 72pp; English.
 PS
 XX AAT49608-T49863 represent target sequences for the human cholesterol
 CC ester transfer protein (CETP) hammerhead (HH) ribozymes (see
 CC AAT4981-T50137). CETP is a 74 kD glycoprotein that facilitates neutral
 CC lipid transfer between plasma lipoproteins. The numbering of the targets
 CC refers to the position of the cleavage site in full length CETP. The
 CC ribozyme binds to 5 nucleotides either side of this site, provided the
 CC sequence UH is immediately upstream. The ribozymes are able to cleave
 CC mRNA from the gene encoding CETP, thereby blocking synthesis and/or
 CC expression of the mRNA. By inhibiting CETP, the reverse cholesterol
 CC transport (RCT) pathway can be inhibited (or eliminated) thereby
 CC preventing the reduction in size density of the high density lipoproteins
 CC (HDL), prolonging HDL half life, and therefore increasing HDL levels.
 CC The ribozymes can be used to treat conditions associated with abnormal
 CC levels of CETP, specifically familial hypercholesterolaemia,
 CC atherosclerosis, peripheral vascular disease, hyperbetalipoproteinaemia,
 CC hypoalphalipoproteinaemia, dyslipidaemia, vascular complications of
 CC diabetes, transplant, atherectomy and angioplastic restenosis. By
 CC inhibiting CETP, the levels of HDL and low density lipoproteins (LDL),
 CC and the HDL:LDL ratio are favourably altered (a decrease in LDL levels,
 CC and a corresponding increase in HDL levels). The HH ribozymes can also
 CC be used diagnostically to study genetic drift and mutations in diseased
 CC cells, and to detect CETP mRNA. As the HH ribozymes target specific
 CC regions of the CETP gene, they have low non-specific activity.
 XX
 XX Sequence 15 BP; 3 A; 9 C; 0 G; 3 U; 0 other;
 SQ
 Query Match 10.8%; Score 15; DB 1; Length 15;
 Best Local Similarity 80.0%; Pred. No. 53;
 Matches 12; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
 QY 1738 CCCAAGCTCTCCCTA 1752
 Db 1 CCCAACUCCUCCUA 15
 RESULT 27
 AAT49835

OS Homo sapiens.
 XX WO9620279-A1.
 XX 04-JUL-1996.
 XX 11-DEC-1995; 95WO-US16000.
 XX 23-DEC-1994; 94US-0363240.
 XX (RIBO-) RIBOZYME PHARM INC.
 XX (WARN) WARNER LAMBERT CO.
 XX Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;
 XX WPI; 1996-321852/32.
 XX New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA
 XX - useful for preventing or treating initial development, progression
 XX or regression of vascular diseases, esp. familial
 XX hypercholesterolaemia
 XX Claim 4; Page 32; 72pp; English.
 XX AAT49608-T49863 represent target sequences for the human cholesterol
 XX ester transfer protein (CETP) hammerhead (HH) ribozymes (see
 XX AAT49881-T50137). CETP is a 74 kD glycoprotein that facilitates neutral
 XX lipid transfer between plasma lipoproteins. The numbering of the targets
 XX refers to the position of the cleavage site in full length CETP. The
 XX ribozyme binds to 5 nucleotides either side of this site, provided the
 XX mRNA from the gene encoding CETP, thereby blocking synthesis and/or
 XX expression of the mRNA. By inhibiting CETP, the reverse cholesterol
 XX transport (RCT) pathway can be inhibited (or eliminated) thereby
 XX preventing the reduction in size density of the high density lipoproteins
 XX (HDL), prolonging HDL half life, and therefore increasing HDL levels.
 XX The ribozymes can be used to treat conditions associated with abnormal
 XX levels of CETP, specifically familial hypercholesterolaemia,
 XX atherosclerosis, peripheral vascular disease, hyperbetalipoproteinaemia,
 XX hypopalipoproteinaemia, dyslipidaemia, vascular complications of
 XX diabetes, transplant, atherectomy and angioplastic restenosis. By
 XX inhibiting CETP, the levels of HDL and low density lipoproteins (LDL),
 XX and the HDL:LDL ratio are favourably altered (a decrease in LDL levels,
 XX and a corresponding increase in HDL levels). The HH ribozymes can also
 XX be used diagnostically to study genetic drift and mutations in diseased
 XX cells, and to detect CETP mRNA. As the HH ribozymes target specific
 XX regions of the CETP gene, they have low non-specific activity.
 XX Sequence 15 BP; 5 A; 1 C; 6 G; 3 U; 0 other;
 XX
 XX Query Match 10.8%; Score 15; DB 1; Length 15;
 XX Best Local Similarity 80.0%; Pred. No. 53;
 XX Matches 12; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
 XX
 XX QY 1712 TAGGATACCGAGAT 1726
 XX :|||||:|||||:
 XX Db 1 UAGGAGUACGAGAU 15
 XX
 XX RESULT 24
 XX AAT49829
 XX ID AAT49829 standard; RNA; 15 BP.
 XX AC AAT49829;
 XX 07-MAR-1997 (first entry)
 XX Human CETP HH ribozyme target sequence #1733.
 XX
 XX Hammerhead ribozyme; cholesterol ester transfer protein; mRNA cleavage;
 XX neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;
 XX reverse cholesterol transport; high density lipoprotein; therapy; CETP;
 XX familial hypercholesterolaemia; dyslipidaemia; hypopalipoproteinaemia;

KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;
 KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;
 KW LDL; ss.
 OS Homo sapiens.
 XX WO9620279-A1.
 XX 04-JUL-1996.
 XX 11-DEC-1995; 95WO-US16000.
 XX 23-DEC-1994; 94US-0363240.
 XX (RIBO-) RIBOZYME PHARM INC.
 XX (WARN) WARNER LAMBERT CO.
 XX Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;
 XX WPI; 1996-321852/32.
 XX New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA
 XX - useful for preventing or treating initial development, progression
 XX or regression of vascular diseases, esp. familial
 XX hypercholesterolaemia
 XX Claim 4; Page 32; 72pp; English.
 XX AAT49608-T49863 represent target sequences for the human cholesterol
 XX ester transfer protein (CETP) hammerhead (HH) ribozymes (see
 XX AAT49881-T50137). CETP is a 74 kD glycoprotein that facilitates neutral
 XX lipid transfer between plasma lipoproteins. The numbering of the targets
 XX refers to the position of the cleavage site in full length CETP. The
 XX ribozyme binds to 5 nucleotides either side of this site, provided the
 XX sequence UH is immediately upstream. The ribozymes are able to cleave
 XX mRNA from the gene encoding CETP, thereby blocking synthesis and/or
 XX expression of the mRNA. By inhibiting CETP, the reverse cholesterol
 XX transport (RCT) pathway can be inhibited (or eliminated) thereby
 XX preventing the reduction in size density of the high density lipoproteins
 XX (HDL), prolonging HDL half life, and therefore increasing HDL levels.
 XX The ribozymes can be used to treat conditions associated with abnormal
 XX levels of CETP, specifically familial hypercholesterolaemia,
 XX atherosclerosis, peripheral vascular disease, hyperbetalipoproteinaemia,
 XX hypopalipoproteinaemia, dyslipidaemia, vascular complications of
 XX diabetes, transplant, atherectomy and angioplastic restenosis. By
 XX inhibiting CETP, the levels of HDL and low density lipoproteins (LDL),
 XX and the HDL:LDL ratio are favourably altered (a decrease in LDL levels,
 XX and a corresponding increase in HDL levels). The HH ribozymes can also
 XX be used diagnostically to study genetic drift and mutations in diseased
 XX cells, and to detect CETP mRNA. As the HH ribozymes target specific
 XX regions of the CETP gene, they have low non-specific activity.
 XX Sequence 15 BP; 2 A; 4 C; 5 G; 4 U; 0 other;
 XX
 XX Query Match 10.8%; Score 15; DB 1; Length 15;
 XX Best Local Similarity 73.3%; Pred. No. 53;
 XX Matches 11; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
 XX
 XX QY 1726 TGGAGATTGGCTCC 1740
 XX :|||||:|||||:
 XX Db 1 UGGAGAUGGCUCC 15
 XX
 XX RESULT 25
 XX AAT49831
 XX ID AAT49831 standard; RNA; 15 BP.
 XX AC AAT49831;
 XX 07-MAR-1997 (first entry)
 XX Human CETP HH ribozyme target sequence #1738.

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PR 23-DEC-1994; 94US-0363240.
XX (RIBO-) RIBOZYME PHARM INC.
PA (WARN ) WARNER LAMBERT CO.
XX
XX Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;
XX WPI; 1996-321852/32.
XX
XX New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA
PT - useful for preventing or treating initial development, progression
PT or regression of vascular diseases, esp. familial
PT hypercholesterolaemia
XX
XX Claim 4; Page 32; 72pp; English.
XX
XX AAT49608-T49863 represent target sequences for the human cholesterol
CC ester transfer protein (CETP) hammetthead (HH) ribozymes (see
CC AAT49881-T50137). CETP is a 74 kD glycoprotein that facilitates neutral
CC lipid transfer between plasma lipoproteins. The numbering of the targets
CC refers to the position of the cleavage site in full length CETP. The
CC ribozyme binds to 5 nucleotides either side of this site, provided the
CC sequence UH is immediately upstream. The ribozymes are able to cleave
CC mRNA from the gene encoding CETP, thereby blocking synthesis and/or
CC expression of the mRNA. By inhibiting CETP, the reverse cholesterol
CC transport (RCT) pathway can be inhibited (or eliminated) thereby
CC preventing the reduction in size density of the high density lipoproteins
CC (HDL), prolonging HDL half life, and therefore increasing HDL levels.
CC The ribozymes can be used to treat conditions associated with abnormal
CC levels of CETP, specifically familial hypercholesterolaemia,
CC atherosclerosis, peripheral vascular disease, hyperbetalipoproteinaemia,
CC hypopalipoproteinaemia, dyslipidaemia, vascular complications of
CC diabetes, transplant, atherectomy and angioplastic restenosis. By
CC inhibiting CETP, the levels of HDL and low density lipoproteins (LDL),
CC and the HDL:LDL ratio are favourably altered (a decrease in LDL levels,
CC and a corresponding increase in HDL levels). The HH ribozymes can also
CC be used diagnostically to study genetic drift and mutations in diseased
CC cells, and to detect CETP mRNA. As the HH ribozymes target specific
CC regions of the CETP gene, they have low non-specific activity.
XX
XX Sequence 15 BP; 3 A; 0 C; 7 G; 5 U; 0 other;
XX
XX Query Match 10.8%; Score 15; DB 1; Length 15;
XX Best Local Similarity 66.7%; Pred. No. 53;
XX Matches 10; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
XX
XX 1705 GTGGGTTAGGAGTA 1719
XX :|||:|||||:
XX 1 GUUGGGUAGGAGUA 15
XX
XX RESULT 22
XX AAT49825
XX ID AAT49825 standard; RNA; 15 BP.
XX AC AAT49825;
XX
XX 07-MAR-1997 (first entry)
XX
XX Human CETP HH ribozyme target sequence #1713.
XX
XX Hammetthead ribozyme; cholesterol ester transfer protein; mRNA cleavage;
XX neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;
XX reverse cholesterol transport; high density lipoprotein; therapy; CETP;
XX familial hypercholesterolaemia; dyslipidaemia; hypopalipoproteinaemia;
XX peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;
XX angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;
XX LDL; ss.
XX
XX Homo sapiens.
XX
XX W09620279-A1.
XX
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PD 04-JUL-1996.
XX
XX 11-DEC-1995; 95WO-US16000.
XX
XX 23-DEC-1994; 94US-0363240.
XX (RIBO-) RIBOZYME PHARM INC.
PA (WARN ) WARNER LAMBERT CO.
XX
XX Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;
XX WPI; 1996-321852/32.
XX
XX New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA
PT - useful for preventing or treating initial development, progression
PT or regression of vascular diseases, esp. familial
PT hypercholesterolaemia
XX
XX Claim 4; Page 32; 72pp; English.
XX
XX AAT49608-T49863 represent target sequences for the human cholesterol
CC ester transfer protein (CETP) hammetthead (HH) ribozymes (see
CC AAT49881-T50137). CETP is a 74 kD glycoprotein that facilitates neutral
CC lipid transfer between plasma lipoproteins. The numbering of the targets
CC refers to the position of the cleavage site in full length CETP. The
CC ribozyme binds to 5 nucleotides either side of this site, provided the
CC sequence UH is immediately upstream. The ribozymes are able to cleave
CC mRNA from the gene encoding CETP, thereby blocking synthesis and/or
CC expression of the mRNA. By inhibiting CETP, the reverse cholesterol
CC transport (RCT) pathway can be inhibited (or eliminated) thereby
CC preventing the reduction in size density of the high density lipoproteins
CC (HDL), prolonging HDL half life, and therefore increasing HDL levels.
CC The ribozymes can be used to treat conditions associated with abnormal
CC levels of CETP, specifically familial hypercholesterolaemia,
CC atherosclerosis, peripheral vascular disease, hyperbetalipoproteinaemia,
CC hypopalipoproteinaemia, dyslipidaemia, vascular complications of
CC diabetes, transplant, atherectomy and angioplastic restenosis. By
CC inhibiting CETP, the levels of HDL and low density lipoproteins (LDL),
CC and the HDL:LDL ratio are favourably altered (a decrease in LDL levels,
CC and a corresponding increase in HDL levels). The HH ribozymes can also
CC be used diagnostically to study genetic drift and mutations in diseased
CC cells, and to detect CETP mRNA. As the HH ribozymes target specific
CC regions of the CETP gene, they have low non-specific activity.
XX
XX Sequence 15 BP; 3 A; 1 C; 6 G; 5 U; 0 other;
XX
XX Query Match 10.8%; Score 15; DB 1; Length 15;
XX Best Local Similarity 66.7%; Pred. No. 53;
XX Matches 10; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
XX
XX 1706 TTGGGTTAGGAGTAC 1720
XX :|||:|||||:
XX 1 UUGGGUAGGAGUAC 15
XX
XX RESULT 23
XX AAT49827
XX ID AAT49827 standard; RNA; 15 BP.
XX AC AAT49827;
XX
XX 07-MAR-1997 (first entry)
XX
XX Human CETP HH ribozyme target sequence #1719.
XX
XX Hammetthead ribozyme; cholesterol ester transfer protein; mRNA cleavage;
XX neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;
XX reverse cholesterol transport; high density lipoprotein; therapy; CETP;
XX familial hypercholesterolaemia; dyslipidaemia; hypopalipoproteinaemia;
XX peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;
XX angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;
XX LDL; ss.
XX
```

XX New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA
 PT - useful for preventing or treating initial development, progression
 PT or regression of vascular diseases, esp. familial
 PT hypercholesterolaemia
 XX
 PS Claim 4; Page 32; 72pp; English.
 XX
 CC AAT49608-T49863 represent target sequences for the human cholesterol
 CC ester transfer protein (CETP) hammerhead (HH) ribozymes (see
 CC AAT49881-T50137). CETP is a 74 kD glycoprotein that facilitates neutral
 CC lipid transfer between plasma lipoproteins. The numbering of the targets
 CC refers to the position of the cleavage site in full length CETP. The
 CC ribozyme binds to 5 nucleotides either side of this site, provided the
 CC sequence UH is immediately upstream. The ribozymes are able to cleave
 CC mRNA from the gene encoding CETP, thereby blocking synthesis and/or
 CC expression of the mRNA. By inhibiting CETP, the reverse cholesterol
 CC transport (RCT) pathway can be inhibited (or eliminated) thereby
 CC preventing the reduction in size density of the high density lipoproteins
 CC (HDL), prolonging HDL half life, and therefore increasing HDL levels.
 CC The ribozymes can be used to treat conditions associated with abnormal
 CC levels of CETP, specifically familial hypercholesterolaemia,
 CC atherosclerosis, peripheral vascular disease, hyperbetalipoproteinaemia,
 CC hypoalphalipoproteinaemia, dyslipidaemia, vascular complications of
 CC diabetes, transplant, atreectomy and angioplastic restenosis. By
 CC inhibiting CETP, the levels of HDL and low density lipoproteins (LDL),
 CC and the HDL:LDL ratio are favourably altered (a decrease in LDL levels,
 CC and a corresponding increase in HDL levels). The HH ribozymes can also
 CC be used diagnostically to study genetic drift and mutations in diseased
 CC cells, and to detect CETP mRNA. As the HH ribozymes target specific
 CC regions of the CETP gene, they have low non-specific activity.
 XX
 SQ Sequence 15 BP; 1 A; 6 C; 4 G; 4 U; 0 other;
 Query Match 10.8%; Score 15; DB 1; Length 15;
 Best Local Similarity 73.3%; Pred. No. 53;
 Matches 11; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
 OY 1684 GTCCTCCAGCGTG 1698
 DB 1 GUCUCUCCAGCGUG 15
 RESULT 20
 ID AAT49821 standard; RNA; 15 BP.
 XX
 AC AAT49821;
 XX
 DT 07-MAR-1997 (first entry)
 XX
 DE Human CETP HH ribozyme target sequence #1707.
 XX
 KW Hammerhead ribozyme; cholesterol ester transfer protein; mRNA cleavage;
 KW neutral lipid transfer; plasma lipoprotein; atherosclerosis; atreectomy;
 KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;
 KW familial hypercholesterolaemia; dyslipidaemia; hypoalphalipoproteinaemia;
 KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;
 KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;
 KW LDL; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO9620279-A1.
 XX
 PD 04-JUL-1996.
 XX
 PF 11-DEC-1995; 95WO-US16000.
 XX
 PR 23-DEC-1994; 94US-0363240.
 XX
 PA (RIBO-) RIBOZYME PHARM INC.
 PA (WARN) WARNER LAMBERT CO.

XX
 PI Bisgaier C, Couture L, McSwiggen J, Page M, Stinchcomb D;
 DR WPI; 1996-321852/32.
 XX
 PT New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA
 PT - useful for preventing or treating initial development, progression
 PT or regression of vascular diseases, esp. familial
 PT hypercholesterolaemia
 XX
 PS Claim 4; Page 32; 72pp; English.
 XX
 CC AAT49608-T49863 represent target sequences for the human cholesterol
 CC ester transfer protein (CETP) hammerhead (HH) ribozymes (see
 CC AAT49881-T50137). CETP is a 74 kD glycoprotein that facilitates neutral
 CC lipid transfer between plasma lipoproteins. The numbering of the targets
 CC refers to the position of the cleavage site in full length CETP. The
 CC ribozyme binds to 5 nucleotides either side of this site, provided the
 CC sequence UH is immediately upstream. The ribozymes are able to cleave
 CC mRNA from the gene encoding CETP, thereby blocking synthesis and/or
 CC expression of the mRNA. By inhibiting CETP, the reverse cholesterol
 CC transport (RCT) pathway can be inhibited (or eliminated) thereby
 CC preventing the reduction in size density of the high density lipoproteins
 CC (HDL), prolonging HDL half life, and therefore increasing HDL levels.
 CC The ribozymes can be used to treat conditions associated with abnormal
 CC levels of CETP, specifically familial hypercholesterolaemia,
 CC atherosclerosis, peripheral vascular disease, hyperbetalipoproteinaemia,
 CC hypoalphalipoproteinaemia, dyslipidaemia, vascular complications of
 CC diabetes, transplant, atreectomy and angioplastic restenosis. By
 CC inhibiting CETP, the levels of HDL and low density lipoproteins (LDL),
 CC and the HDL:LDL ratio are favourably altered (a decrease in LDL levels,
 CC and a corresponding increase in HDL levels). The HH ribozymes can also
 CC be used diagnostically to study genetic drift and mutations in diseased
 CC cells, and to detect CETP mRNA. As the HH ribozymes target specific
 CC regions of the CETP gene, they have low non-specific activity.
 XX
 SQ Sequence 15 BP; 3 A; 0 C; 7 G; 5 U; 0 other;
 Query Match 10.8%; Score 15; DB 1; Length 15;
 Best Local Similarity 66.7%; Pred. No. 53;
 Matches 10; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
 OY 1700 TGGAAAGTGGGTAG 1714
 DB 1 UGGAAGUGGGUAG 15
 RESULT 21
 ID AAT49823 standard; RNA; 15 BP.
 XX
 AC AAT49823;
 XX
 DT 07-MAR-1997 (first entry)
 XX
 DE Human CETP HH ribozyme target sequence #1712.
 XX
 KW Hammerhead ribozyme; cholesterol ester transfer protein; mRNA cleavage;
 KW neutral lipid transfer; plasma lipoprotein; atherosclerosis; atreectomy;
 KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;
 KW familial hypercholesterolaemia; dyslipidaemia; hypoalphalipoproteinaemia;
 KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;
 KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;
 KW LDL; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO9620279-A1.
 XX
 PD 04-JUL-1996.
 XX
 PF 11-DEC-1995; 95WO-US16000.
 XX

CC AAT49608-T49863 represent target sequences for the human cholesterol
 CC ester transfer protein (CETP) hammerhead (HH) ribozymes (see
 CC AAT49881-T50137). CETP is a 74 kD glycoprotein that facilitates neutral
 CC lipid transfer between plasma lipoproteins. The numbering of the targets
 CC refers to the position of the cleavage site in full length CETP. The
 CC ribozyme binds to 5 nucleotides either side of this site, provided the
 CC sequence UH is immediately upstream. The ribozymes are able to cleave
 CC mRNA from the gene encoding CETP, thereby blocking synthesis and/or
 CC expression of the mRNA. By inhibiting CETP, the reverse cholesterol
 CC transport (RCT) pathway can be inhibited (or eliminated) thereby
 CC preventing the reduction in size density of the high density lipoproteins
 CC (HDL), prolonging HDL half life, and therefore increasing HDL levels.
 CC The ribozymes can be used to treat conditions associated with abnormal
 CC levels of CETP, specifically familial hypercholesterolaemia,
 CC atherosclerosis, peripheral vascular disease, hyperbetalipoproteinaemia,
 CC hypopalipoproteinaemia, dyslipidaemia, vascular complications of
 CC diabetes, transplant, atherectomy and angioplastic restenosis. By
 CC inhibiting CETP, the levels of HDL and low density lipoproteins (LDL),
 CC and the HDL:LDL ratio are favourably altered (a decrease in LDL levels,
 CC and a corresponding increase in HDL levels). The HH ribozymes can also
 CC be used diagnostically to study genetic drift and mutations in diseased
 CC cells, and to detect CETP mRNA. As the HH ribozymes target specific
 CC regions of the CETP gene, they have low non-specific activity.
 XX
 SQ Sequence 15 BP; 1 A; 6 C; 3 G; 5 U; 0 other;

Query Match 10.8%; Score 15; DB 1; Length 15;
 Best Local Similarity 66.7%; Pred. No. 53;
 Matches 10; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
 QY 1679 CTGGTCTCTCTCCCA 1693
 Db 1 CUGGUGUCCUCCCA 15
 |||:|:|:|:|
 |||:|:|:|:|

RESULT 18
 AAT49817
 ID AAT49817 standard; RNA; 15 BP.
 XX AC AAT49817;
 XX DT 07-MAR-1997 (first entry)
 XX DE Human CETP HH ribozyme target sequence #1688.
 KW Hammerhead ribozyme; cholesterol ester transfer protein; mRNA cleavage;
 KW neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;
 KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;
 KW familial hypercholesterolaemia; dyslipidaemia; hypopalipoproteinaemia;
 KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;
 KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;
 KW LDL; ss.
 XX OS Homo sapiens.
 XX PN W09620279-A1.
 XX PD 04-JUL-1996.
 XX PF 11-DEC-1995; 95WO-US16000.
 XX PR 23-DEC-1994; 94US-0363240.
 XX PA (RIBO-) RIBOZYME PHARM INC.
 XX PA (WARN) WARNER LAMBERT CO.
 XX PI Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;
 XX WPI; 1996-321852/32.
 XX PT New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA
 XX PT - useful for preventing or treating initial development, progression
 XX PT or regression of vascular diseases, esp. familial

PT hypercholesterolaemia

PS Claim 4; Page 32; 72pp; English.

CC AAT49608-T49863 represent target sequences for the human cholesterol
 CC ester transfer protein (CETP) hammerhead (HH) ribozymes (see
 CC AAT49881-T50137). CETP is a 74 kD glycoprotein that facilitates neutral
 CC lipid transfer between plasma lipoproteins. The numbering of the targets
 CC refers to the position of the cleavage site in full length CETP. The
 CC ribozyme binds to 5 nucleotides either side of this site, provided the
 CC sequence UH is immediately upstream. The ribozymes are able to cleave
 CC mRNA from the gene encoding CETP, thereby blocking synthesis and/or
 CC expression of the mRNA. By inhibiting CETP, the reverse cholesterol
 CC transport (RCT) pathway can be inhibited (or eliminated) thereby
 CC preventing the reduction in size density of the high density lipoproteins
 CC (HDL), prolonging HDL half life, and therefore increasing HDL levels.
 CC The ribozymes can be used to treat conditions associated with abnormal
 CC levels of CETP, specifically familial hypercholesterolaemia,
 CC atherosclerosis, peripheral vascular disease, hyperbetalipoproteinaemia,
 CC hypopalipoproteinaemia, dyslipidaemia, vascular complications of
 CC diabetes, transplant, atherectomy and angioplastic restenosis. By
 CC inhibiting CETP, the levels of HDL and low density lipoproteins (LDL),
 CC and the HDL:LDL ratio are favourably altered (a decrease in LDL levels,
 CC and a corresponding increase in HDL levels). The HH ribozymes can also
 CC be used diagnostically to study genetic drift and mutations in diseased
 CC cells, and to detect CETP mRNA. As the HH ribozymes target specific
 CC regions of the CETP gene, they have low non-specific activity.
 XX
 SQ Sequence 15 BP; 1 A; 6 C; 4 G; 4 U; 0 other;

Query Match 10.8%; Score 15; DB 1; Length 15;
 Best Local Similarity 73.3%; Pred. No. 53;
 Matches 11; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1681 GGTGTCCTCTCCACG 1695
 Db 1 GUGUGUCCUCCACG 15
 |||:|:|:|:|
 |||:|:|:|:|

RESULT 19
 AAT49819
 ID AAT49819 standard; RNA; 15 BP.
 XX AC AAT49819;
 XX DT 07-MAR-1997 (first entry)
 XX DE Human CETP HH ribozyme target sequence #1691.

KW Hammerhead ribozyme; cholesterol ester transfer protein; mRNA cleavage;
 KW neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;
 KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;
 KW familial hypercholesterolaemia; dyslipidaemia; hypopalipoproteinaemia;
 KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;
 KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;
 KW LDL; ss.

XX OS Homo sapiens.
 XX PN W09620279-A1.
 XX PD 04-JUL-1996.
 XX PF 11-DEC-1995; 95WO-US16000.
 XX PR 23-DEC-1994; 94US-0363240.
 XX PA (RIBO-) RIBOZYME PHARM INC.
 XX PA (WARN) WARNER LAMBERT CO.
 XX PI Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;
 XX WPI; 1996-321852/32.


```

XX Query Match 12.4%; Score 17.2; DB 1; Length 22;
AC Best Local Similarity 86.4%; Pred. No. 39;
XX Matches 19; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
XX
XX QY 1738 CCCAACTCCTCCCTATCCTAA 1759
XX 1 CCCAACTCCTCCAGTCTCTAA 22
XX
XX RESULT 13
XX AAX22550/c
XX ID AAX22550 standard; mRNA; 17 BP.
XX
XX AC AAX22550;
XX
XX XX 21-MAY-1999 (first entry)
XX DT
XX DE Human CETP RNA fragment #5.
XX
XX KW CETP; cholesterol ester transfer protein; inhibitor; therapy; treatment;
XX surface plasmon resonance; vascular disease; pathogenic; atherosclerosis;
XX human; ss.
XX
XX OS Homo sapiens.
XX
XX PN DE19731609-A1.
XX
XX PD 18-FEB-1999.
XX
XX PF 23-JUL-1997; 97DE-1031609.
XX
XX PR 23-JUL-1997; 97DE-1031609.
XX
XX PA (BOEH) BOEHRINGER INGELHEIM PHARMA KG.
XX
XX PI Budzinski R, Krist B, Mark M, Mueller P;
XX WPI; 1999-143775/13.
XX
XX PT RNA transcript of human cholesterol ester transfer protein gene -
XX useful in drug screening assays, especially for atherosclerosis
XX
XX PS Disclosure; Page 13; 24pp; German.
XX
XX CC This invention describes the isolation of a transcript of the human
XX cholesterol ester transfer protein (CETP) gene having a 5' untranslated
XX region including a regulatory sequence. The invention also describes
XX a method (a) for identifying substances capable of inhibiting CETP gene
XX expression, comprising measuring the translation rate of the above
XX transcript in the presence of a test substance, (2) a test substance
XX capable of inhibiting CETP gene expression, (3) an antisense
XX oligonucleotide capable of binding to the 5' untranslated region of the
XX above transcript and (4) a method based on surface plasmon resonance for
XX measuring the binding of a substance to a nucleic acid. The test
XX substance of (2) and the oligonucleotide of (3) are useful for
XX prophylactic or therapeutic treatment of vascular diseases in which CETP
XX has a pathogenic role, especially atherosclerosis.
XX
XX SQ Sequence 17 BP; 2 A; 8 C; 1 G; 6 U; 0 other;
XX
XX Query Match 12.2%; Score 17; DB 1; Length 17;
XX Best Local Similarity 100.0%; Pred. No. 27;
XX Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 1715 GAGTACGAGATGAGGA 1731
XX 17 GAGTACGAGATGAGGA 1
XX
XX RESULT 14
XX AAI99829
XX ID AAI99829 standard; DNA; 21 BP.

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XX AAI99829;
XX
XX DT 28-JAN-2002 (first entry)
XX
XX DE Human G protein-coupled receptor protein TGR5 PCR primer SEQ ID NO 5.
XX
XX KW Human; TGR5; G protein-coupled receptor protein; cerebroprotective;
XX cardiant; immunomodulator; cytostatic; antiinflammatory; antidiabetic;
XX cancer; PCR primer; ss.
XX
XX OS Homo sapiens.
XX
XX PN WO200177325-A1.
XX
XX PD 18-OCT-2001.
XX
XX PF 12-APR-2001; 2001WO-JP03143.
XX
XX PR 12-APR-2000; 2000JP-0110765.
XX
XX PA (TAKE) TAKEDA CHEM IND LTD.
XX
XX PI Miwa M, Matsui H, Shintani Y;
XX WPI; 2002-010910/01.
XX
XX PT Human brain-originated G protein-coupled receptor protein TGR5,
XX applicable in diagnosis and developing drugs for diseases of e.g.
XX central nervous system and digestive organs, inflammation, cancer and
XX diabetes.
XX
XX PS Example 2; Page 98; 104pp; Japanese.
XX
XX CC The invention relates to a novel human G protein-coupled receptor protein
XX TGR5 and the encoding cDNA with cerebroprotective, cardiant,
XX immunomodulator, cytostatic, antiinflammatory and antidiabetic activity.
XX The protein, encoded DNA and anti-TGR5 antibody are applicable in
XX diagnosis and developing drugs for diseases of central nervous system and
XX circulatory organs, inflammation, cancer and diabetes. The present
XX sequence is that of a TGR5 PCR primer of the invention.
XX
XX SQ Sequence 21 BP; 2 A; 9 C; 2 G; 8 T; 0 other;
XX
XX Query Match 12.1%; Score 16.8; DB 1; Length 21;
XX Best Local Similarity 90.0%; Pred. No. 43;
XX Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
XX QY 1732 TTGGCTCCCAACTCTCCCT 1751
XX 1 TTGGCTCCCAACTCTCCCT 20
XX
XX RESULT 15
XX AAV52705
XX ID AAV52705 standard; DNA; 22 BP.
XX
XX AC AAV52705;
XX
XX DT 21-DEC-1998 (first entry)
XX
XX DE Hepatocyte nuclear factor 1 beta gene exon 4-2 forward PCR primer.
XX
XX KW Hepatocyte nuclear factor 1 beta; HNF-1 beta; MCDY4; human;
XX transcription factor; maturity onset diabetes of the young; TCF2;
XX diabetes; NIDDM; diagnosis; therapy; PCR; primer; ss.
XX
XX OS Synthetic.
XX
XX OS Homo sapiens.
XX
XX PN WO9811254-A1.
XX
XX PD 19-MAR-1998.

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PT abnormal lipid or cholesterol metabolism, atherosclerosis or
PT cardiovascular disease

XX Claim 3; Page 97; 114pp; English.

XX The invention relates to new antisense compounds targeted to a nucleic
CC acid molecule encoding human cholesteryl ester transfer protein,
CC specifically hybridises with it and inhibits the expression of human
CC cholesteryl ester transfer protein. The compound is useful for preparing
CC a composition for treating abnormal lipid or cholesterol metabolism,
CC atherosclerosis or cardiovascular disease. The present sequence
CC represents a human cholesteryl ester transfer protein, antisense
CC oligonucleotide of the invention.

XX Sequence 20 BP; 4 A; 4 C; 7 G; 5 T; 0 other;

Query Match 14.4%; Score 20; DB 1; Length 20;

Best Local Similarity 100.0%; Pred. No. 8.9;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1750 CTATCTCTAAAGGCCCACTGG 1769

Db 20 CTATCTCTAAAGGCCCACTGG 1

RESULT 11

AAT50642
ID AAT50642 standard; RNA; 18 BP.

XX AC AAT50642;

XX 10-MAR-1997 (first entry)

XX Human CETP hairpin ribozyme target sequence #1669.

XX Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;
KW neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;
KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;
KW familial hypercholesterolaemia; dyslipidaemia; hypoalphalipoproteinaemia;
KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;
KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;
KW LDL; ss.

XX Homo sapiens.

XX WO9620279-A1.

XX 04-JUL-1996.

XX 11-DEC-1995; 95WO-US16000.

XX 23-DEC-1994; 94US-0363240.

XX (RIBO-) RIBOZYME PHARM INC.
XX (WARN) WARNER LAMBERT CO.

XX Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;

XX WPI; 1996-321852/32.

XX New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA
PT - useful for preventing or treating initial development, progression
PT or regression of vascular diseases, esp. familial
PT hypercholesterolaemia

XX Claim 4; Page 54; 72pp; English.

XX AAT50595-T50642 represent target sequences for the human cholesterol
CC ester transfer protein (CETP) hairpin ribozymes (see AAT50547-T50594).
CC CETP is a 74 kD glycoprotein that facilitates neutral lipid transfer
CC between plasma lipoproteins. The numbering of the targets refers to the
CC position of the cleavage site in full length CETP. The ribozyme then
CC binds to 4-6 nucleotides 5', and a variable number 3' of this site. The

CC ribozymes are able to cleave mRNA from the gene encoding CETP, thereby
CC blocking synthesis and/or expression of the mRNA. By inhibiting CETP,
CC the reverse cholesterol transport (RCT) pathway can be inhibited (or
CC eliminated) thereby preventing the reduction in size density of the high
CC density lipoproteins (HDL), prolonging HDL half life, and therefore
CC increasing HDL levels. The ribozymes can be used to treat conditions
CC associated with abnormal levels of CETP, specifically atherosclerosis,
CC peripheral vascular disease, hyperbetalipoproteinaemia, dyslipidaemia,
CC familial hypercholesterolaemia, hypoalphalipoproteinaemia, vascular
CC complications of diabetes, transplant, atherectomy and angioplastic
CC restenosis. By inhibiting CETP, the levels of HDL and low density
CC lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a
CC decrease in LDL levels, and a corresponding increase in HDL levels). The
CC ribozymes can also be used diagnostically to study genetic drift and
CC mutations in diseased cells, and to detect CETP mRNA. As the ribozymes
CC target specific regions of the CETP gene, they have low non-specific
CC activity.

XX Sequence 18 BP; 4 A; 7 C; 4 G; 3 U; 0 other;

Query Match 12.9%; Score 18; DB 1; Length 18;

Best Local Similarity 83.3%; Pred. No. 19;

Matches 15; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1663 GCTCACAGCTGGAAACCT 1680

Db 1 GCUCACAGCUGGAACCCU 18

RESULT 12

AAX37644

ID AAX37644 standard; DNA; 22 BP.

XX AC AAX37644;

XX 08-JUL-1999 (first entry)

XX HBV detecting primer 8.

XX Detection; HBV; real time; PCR; reporter; fluorescent; primer;
KW quencher; fluorescence resonance energy transfer; ss.

XX Synthetic.

XX Hepatitis B virus.

XX JPI1103897-A.

XX 20-APR-1999.

XX 30-SEP-1997; 97JP-0282612.

XX 30-SEP-1997; 97JP-0282612.

XX (SRLS-) SRL XK.

XX WPI; 1999-305860/26.

XX New primers and probes - for measurement of an Herpes B Virus (HBV)
PT gene by a real time detecting PCR

XX Example 2; Page 8; 12pp; Japanese.

XX This invention describes a method for the measurement of an HBV gene by
CC a real time detecting PCR. The invention also describes a method for the
CC measurement of an HBV gene by a real time detecting PCR in which a
CC reporter fluorescent colour and a quencher fluorescent colour are
CC combined to an oligonucleotide, the fluorescence of said reporter
CC fluorescent colour is controlled by fluorescence resonance energy
CC transfer when reporter fluorescent colour is combined to the same probe
CC as quencher fluorescent colour. The method can measure an HBV exactly in
CC a high sensitivity.

XX Sequence 22 BP; 5 A; 11 C; 1 G; 5 T; 0 other;

XX 08-AUG-2001; 2001US-0925139.
XX (ISIS-) ISIS PHARM INC.
XX Crooke RM, Graham MJ, Nero PS, Wancewicz E;
XX WPI; 2003-248014/25.
XX New antisense compound, useful for preparing a composition for treating
XX abnormal lipid or cholesterol metabolism, atherosclerosis or
XX cardiovascular disease
XX Claim 3; Page 97; 114pp; English.
XX The invention relates to new antisense compounds targeted to a nucleic
XX acid molecule encoding human cholesteryl ester transfer protein,
XX specifically hybridizes with it and inhibits the expression of human
XX cholesteryl ester transfer protein. The compound is useful for preparing
XX a composition for treating abnormal lipid or cholesterol metabolism,
XX atherosclerosis or cardiovascular disease. The present sequence
XX represents a human cholesteryl ester transfer protein, antisense
XX oligonucleotide of the invention.
XX Sequence 20 BP; 6 A; 10 C; 1 G; 3 T; 0 other;
XX
XX Query Match 14.4%; Score 20; DB 1; Length 20;
XX Best Local Similarity 100.0%; Pred. No. 8.9;
XX Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
Qy 1693 AGCGTGGTGAAGTTGGGTT 1712
Db 20 AGCGTGGTGAAGTTGGGTT 1
RESULT 9
ABX12219/c
ID ABX12219 standard; DNA; 20 BP.
XX AC ABX12219;
XX 16-MAY-2003 (first entry)
XX Human cholesteryl ester transfer protein, antisense oligo #40.
XX Human; cholesteryl ester transfer protein; lipid metabolism;
XX cholesterol metabolism; atherosclerosis; cardiovascular disease;
XX antisense; probe; ss.
XX Homo sapiens.
XX Key Location/Qualifiers
XX modified_base 1..6
XX /mod_base= OTHER
XX /note= "2'-methoxyethyl (2'-MOE) nucleotides"
XX modified_base 1..20
XX /mod_base= OTHER
XX /note= "Phosphorothioate nucleotides; all cytidine
XX residues are 5-methylcytidines"
XX modified_base 15..20
XX /mod_base= OTHER
XX /note= "2'-methoxyethyl (2'-MOE) nucleotides"
XX WO2003014306-A2.
XX 20-FEB-2003.
XX 05-AUG-2002; 2002WO-US24919.
XX 08-AUG-2001; 2001US-0925139.
XX (ISIS-) ISIS PHARM INC.
XX Crooke RM, Graham MJ, Nero PS, Wancewicz E;
XX WPI; 2003-248014/25.
XX New antisense compound, useful for preparing a composition for treating

PI Crooke RM, Graham MJ, Nero PS, Wancewicz E;
XX WPI; 2003-248014/25.
XX New antisense compound, useful for preparing a composition for treating
XX abnormal lipid or cholesterol metabolism, atherosclerosis or
XX cardiovascular disease
XX Claim 3; Page 97; 114pp; English.
XX The invention relates to new antisense compounds targeted to a nucleic
XX acid molecule encoding human cholesteryl ester transfer protein,
XX specifically hybridizes with it and inhibits the expression of human
XX cholesteryl ester transfer protein. The compound is useful for preparing
XX a composition for treating abnormal lipid or cholesterol metabolism,
XX atherosclerosis or cardiovascular disease. The present sequence
XX represents a human cholesteryl ester transfer protein, antisense
XX oligonucleotide of the invention.
XX Sequence 20 BP; 4 A; 9 C; 1 G; 6 T; 0 other;
XX
XX Query Match 14.4%; Score 20; DB 1; Length 20;
XX Best Local Similarity 100.0%; Pred. No. 8.9;
XX Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
Qy 1714 GGAGTAGCGAGATGGAGATT 1733
Db 20 GGAGTAGCGAGATGGAGATT 1
RESULT 10
ABX12220/c
ID ABX12220 standard; DNA; 20 BP.
XX AC ABX12220;
XX 16-MAY-2003 (first entry)
XX Human cholesteryl ester transfer protein, antisense oligo #41.
XX Human; cholesteryl ester transfer protein; lipid metabolism;
XX cholesterol metabolism; atherosclerosis; cardiovascular disease;
XX antisense; probe; ss.
XX Homo sapiens.
XX Key Location/Qualifiers
XX modified_base 1..6
XX /mod_base= OTHER
XX /note= "2'-methoxyethyl (2'-MOE) nucleotides"
XX modified_base 1..20
XX /mod_base= OTHER
XX /note= "Phosphorothioate nucleotides; all cytidine
XX residues are 5-methylcytidines"
XX modified_base 15..20
XX /mod_base= OTHER
XX /note= "2'-methoxyethyl (2'-MOE) nucleotides"
XX WO2003014306-A2.
XX 20-FEB-2003.
XX 05-AUG-2002; 2002WO-US24919.
XX 08-AUG-2001; 2001US-0925139.
XX (ISIS-) ISIS PHARM INC.
XX Crooke RM, Graham MJ, Nero PS, Wancewicz E;
XX WPI; 2003-248014/25.
XX New antisense compound, useful for preparing a composition for treating

FT modified_base 15..20 residues are 5-methylcytidines"
 FT /mod_base= OTHER
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
 PN WO2003014306-A2.
 XX 20-FEB-2003.
 XX 05-AUG-2002; 2002WO-US24919.
 XX 08-AUG-2001; 2001US-0925139.
 XX (ISIS-) ISIS PHARM INC.
 PI Crooke RM, Graham MJ, Nero PS, Wanciewicz E;
 XX WPI; 2003-248014/25.
 XX New antisense compound, useful for preparing a composition for treating
 PT abnormal lipid or cholesterol metabolism, atherosclerosis or
 PT cardiovascular disease -
 XX Claim 3; Page 96; 114pp; English.
 XX The invention relates to new antisense compounds targeted to a nucleic
 CC acid molecule encoding human cholesteryl ester transfer protein,
 CC specifically hybridises with it and inhibits the expression of human
 CC cholesteryl ester transfer protein. The compound is useful for preparing
 CC a composition for treating abnormal lipid or cholesterol metabolism,
 CC atherosclerosis or cardiovascular disease. The present sequence
 CC represents a human cholesteryl ester transfer protein, antisense
 CC oligonucleotide of the invention.
 XX Sequence 20 BP; 5 A; 9 C; 1 G; 5 T; 0 other;
 SQ Query Match 14.4%; Score 20; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 8.9;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1701 GGAAGTTGGTTAGGAGTAC 1720
 |||||
 DB 20 GGAAGTTGGTTAGGAGTAC 1

RESULT 7
 ABX12217/c
 ID ABX12217 standard; DNA; 20 BP.
 XX AC ABX12217;
 XX 16-MAY-2003 (first entry)
 XX Human cholesteryl ester transfer protein, antisense oligo #38.
 DE Human; cholesteryl ester transfer protein; lipid metabolism;
 KW cholesterol metabolism; atherosclerosis; cardiovascular disease;
 KW antisense; probe; ss.
 XX Homo sapiens.
 OS Key Location/Qualifiers
 FH modified_base 1..6
 FT /mod_base= OTHER
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
 FT modified_base 1..20
 FT /mod_base= OTHER
 FT /note= "phosphorothioate nucleotides; all cytidine
 FT residues are 5-methylcytidines"
 FT modified_base 15..20
 FT /mod_base= OTHER
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"

PN WO2003014306-A2.
 XX 20-FEB-2003.
 XX 05-AUG-2002; 2002WO-US24919.
 XX 08-AUG-2001; 2001US-0925139.
 XX (ISIS-) ISIS PHARM INC.
 PI Crooke RM, Graham MJ, Nero PS, Wanciewicz E;
 XX WPI; 2003-248014/25.
 XX New antisense compound, useful for preparing a composition for treating
 PT abnormal lipid or cholesterol metabolism, atherosclerosis or
 PT cardiovascular disease -
 XX Claim 3; Page 97; 114pp; English.
 XX The invention relates to new antisense compounds targeted to a nucleic
 CC acid molecule encoding human cholesteryl ester transfer protein,
 CC specifically hybridises with it and inhibits the expression of human
 CC cholesteryl ester transfer protein. The compound is useful for preparing
 CC a composition for treating abnormal lipid or cholesterol metabolism,
 CC atherosclerosis or cardiovascular disease. The present sequence
 CC represents a human cholesteryl ester transfer protein, antisense
 CC oligonucleotide of the invention.
 XX Sequence 20 BP; 3 A; 7 C; 4 G; 6 T; 0 other;
 SQ Query Match 14.4%; Score 20; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 8.9;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1638 GCTTGTACGACAGGCAAGC 1657
 |||||
 DB 20 GCTTGTACGACAGGCAAGC 1

RESULT 8
 ABX12218/c
 ID ABX12218 standard; DNA; 20 BP.
 XX AC ABX12218;
 XX 16-MAY-2003 (first entry)
 XX Human cholesteryl ester transfer protein, antisense oligo #39.
 DE Human; cholesteryl ester transfer protein; lipid metabolism;
 KW cholesterol metabolism; atherosclerosis; cardiovascular disease;
 KW antisense; probe; ss.
 XX Homo sapiens.
 OS Key Location/Qualifiers
 FH modified_base 1..6
 FT /mod_base= OTHER
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
 FT modified_base 1..20
 FT /mod_base= OTHER
 FT /note= "Phosphorothioate nucleotides; all cytidine
 FT residues are 5-methylcytidines"
 FT modified_base 15..20
 FT /mod_base= OTHER
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
 PN WO2003014306-A2.
 XX 20-FEB-2003.
 XX 05-AUG-2002; 2002WO-US24919.

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XX OS Homo sapiens.
XX FH Key Location/Qualifiers
XX modified_base 1..6
FT FT /mod_base= OTHER
FT FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
FT modified_base 1..20
FT FT /mod_base= OTHER
FT FT /note= "Phosphorothioate nucleotides; all cytidine
FT modified_base 15..20
FT FT /mod_base= OTHER
FT FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
XX PN WO2003014306-A2.
XX PD 20-FEB-2003.
XX PF 05-AUG-2002; 2002WO-US24919.
XX PR 08-AUG-2001; 2001US-0925139.
XX PA (ISIS-) ISIS PHARM INC.
XX PI Crooke RM, Graham MJ, Nero PS, Wanciewicz E;
XX DR WPI; 2003-248014/25.
XX New antisense compound, useful for preparing a composition for treating
XX abnormal lipid or cholesterol metabolism, atherosclerosis or
XX cardiovascular disease
XX Claim 3; Page 96; 114pp; English.
XX The invention relates to new antisense compounds targeted to a nucleic
XX acid molecule encoding human cholesteryl ester transfer protein,
XX specifically hybridises with it and inhibits the expression of human
XX cholesteryl ester transfer protein. The compound is useful for preparing
XX a composition for treating abnormal lipid or cholesterol metabolism,
XX atherosclerosis or cardiovascular disease. The present sequence
XX represents a human cholesteryl ester transfer protein, antisense
XX oligonucleotide of the invention.
XX Sequence 20 BP; 4 A; 9 C; 2 G; 5 T; 0 other;
Query Match 14.4%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 8.9;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1631 GGATGGGGCTGTAGCAGAA 1650
Db 20 GGATGGGGCTGTAGCAGAA 1
RESULT 5
ABX12199/c
ID ABX12199 standard; DNA; 20 BP.
XX AC ABX12199;
XX DT 16-MAY-2003 (first entry)
XX DE Human cholesteryl ester transfer protein, antisense oligo #20.
XX Human; cholesteryl ester transfer protein; lipid metabolism;
XX cholesterol metabolism; atherosclerosis; cardiovascular disease;
XX antisense; probe; ss.
XX Homo sapiens.
XX Key Location/Qualifiers
XX modified_base 1..6
FT FT /mod_base= OTHER
FT FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
XX OS Homo sapiens.
XX FH Key Location/Qualifiers
XX modified_base 1..6
FT FT /mod_base= OTHER
FT FT /note= "Phosphorothioate nucleotides; all cytidine
FT modified_base 15..20
FT FT /mod_base= OTHER
FT FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
XX PN WO2003014306-A2.
XX PD 20-FEB-2003.
XX PF 05-AUG-2002; 2002WO-US24919.
XX PR 08-AUG-2001; 2001US-0925139.
XX PA (ISIS-) ISIS PHARM INC.
XX PI Crooke RM, Graham MJ, Nero PS, Wanciewicz E;
XX DR WPI; 2003-248014/25.
XX New antisense compound, useful for preparing a composition for treating
XX abnormal lipid or cholesterol metabolism, atherosclerosis or
XX cardiovascular disease
XX Claim 3; Page 96; 114pp; English.
XX The invention relates to new antisense compounds targeted to a nucleic
XX acid molecule encoding human cholesteryl ester transfer protein,
XX specifically hybridises with it and inhibits the expression of human
XX cholesteryl ester transfer protein. The compound is useful for preparing
XX a composition for treating abnormal lipid or cholesterol metabolism,
XX atherosclerosis or cardiovascular disease. The present sequence
XX represents a human cholesteryl ester transfer protein, antisense
XX oligonucleotide of the invention.
XX Sequence 20 BP; 4 A; 9 C; 2 G; 5 T; 0 other;
Query Match 14.4%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 8.9;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1631 GGATGGGGCTGTAGCAGAA 1650
Db 20 GGATGGGGCTGTAGCAGAA 1
RESULT 5
ABX12199/c
ID ABX12199 standard; DNA; 20 BP.
XX AC ABX12199;
XX DT 16-MAY-2003 (first entry)
XX DE Human cholesteryl ester transfer protein, antisense oligo #20.
XX Human; cholesteryl ester transfer protein; lipid metabolism;
XX cholesterol metabolism; atherosclerosis; cardiovascular disease;
XX antisense; probe; ss.
XX Homo sapiens.
XX Key Location/Qualifiers
XX modified_base 1..6
FT FT /mod_base= OTHER
FT FT /note= "Phosphorothioate nucleotides; all cytidine
FT modified_base 15..20
FT FT /mod_base= OTHER
FT FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
XX PN WO2003014306-A2.
XX PD 20-FEB-2003.
XX PF 05-AUG-2002; 2002WO-US24919.
XX PR 08-AUG-2001; 2001US-0925139.
XX PA (ISIS-) ISIS PHARM INC.
XX PI Crooke RM, Graham MJ, Nero PS, Wanciewicz E;
XX DR WPI; 2003-248014/25.
XX New antisense compound, useful for preparing a composition for treating
XX abnormal lipid or cholesterol metabolism, atherosclerosis or
XX cardiovascular disease
XX Claim 3; Page 96; 114pp; English.
XX The invention relates to new antisense compounds targeted to a nucleic
XX acid molecule encoding human cholesteryl ester transfer protein,
XX specifically hybridises with it and inhibits the expression of human
XX cholesteryl ester transfer protein. The compound is useful for preparing
XX a composition for treating abnormal lipid or cholesterol metabolism,
XX atherosclerosis or cardiovascular disease. The present sequence
XX represents a human cholesteryl ester transfer protein, antisense
XX oligonucleotide of the invention.
XX Sequence 20 BP; 4 A; 9 C; 2 G; 5 T; 0 other;
Query Match 14.4%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 8.9;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1671 CTGGACCCCTGGTGTCTCCT 1690
Db 20 CTGGACCCCTGGTGTCTCCT 1
RESULT 6
ABX12200/c
ID ABX12200 standard; DNA; 20 BP.
XX AC ABX12200;
XX DT 16-MAY-2003 (first entry)
XX DE Human cholesteryl ester transfer protein, antisense oligo #21.
XX Human; cholesteryl ester transfer protein; lipid metabolism;
XX cholesterol metabolism; atherosclerosis; cardiovascular disease;
XX antisense; probe; ss.
XX Homo sapiens.
XX Key Location/Qualifiers
XX modified_base 1..6
FT FT /mod_base= OTHER
FT FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
XX PN WO2003014306-A2.
XX PD 20-FEB-2003.
XX PF 05-AUG-2002; 2002WO-US24919.
XX PR 08-AUG-2001; 2001US-0925139.
XX PA (ISIS-) ISIS PHARM INC.
XX PI Crooke RM, Graham MJ, Nero PS, Wanciewicz E;
XX DR WPI; 2003-248014/25.
XX New antisense compound, useful for preparing a composition for treating
XX abnormal lipid or cholesterol metabolism, atherosclerosis or
XX cardiovascular disease
XX Claim 3; Page 96; 114pp; English.
XX The invention relates to new antisense compounds targeted to a nucleic
XX acid molecule encoding human cholesteryl ester transfer protein,
XX specifically hybridises with it and inhibits the expression of human
XX cholesteryl ester transfer protein. The compound is useful for preparing
XX a composition for treating abnormal lipid or cholesterol metabolism,
XX atherosclerosis or cardiovascular disease. The present sequence
XX represents a human cholesteryl ester transfer protein, antisense
XX oligonucleotide of the invention.
XX Sequence 20 BP; 6 A; 5 C; 7 G; 2 T; 0 other;
Query Match 14.4%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 8.9;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1671 CTGGACCCCTGGTGTCTCCT 1690
Db 20 CTGGACCCCTGGTGTCTCCT 1

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FT FT /mod_base= OTHER
FT FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
XX PN WO2003014306-A2.
XX PD 20-FEB-2003.
XX PF 05-AUG-2002; 2002WO-US24919.
XX PR 08-AUG-2001; 2001US-0925139.
XX PA (ISIS-) ISIS PHARM INC.
XX PI Crooke RM, Graham MJ, Nero PS, Wanciewicz E;
XX DR WPI; 2003-248014/25.
XX New antisense compound, useful for preparing a composition for treating
XX abnormal lipid or cholesterol metabolism, atherosclerosis or
XX cardiovascular disease
XX Claim 3; Page 96; 114pp; English.
XX The invention relates to new antisense compounds targeted to a nucleic
XX acid molecule encoding human cholesteryl ester transfer protein,
XX specifically hybridises with it and inhibits the expression of human
XX cholesteryl ester transfer protein. The compound is useful for preparing
XX a composition for treating abnormal lipid or cholesterol metabolism,
XX atherosclerosis or cardiovascular disease. The present sequence
XX represents a human cholesteryl ester transfer protein, antisense
XX oligonucleotide of the invention.
XX Sequence 20 BP; 6 A; 5 C; 7 G; 2 T; 0 other;
Query Match 14.4%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 8.9;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1671 CTGGACCCCTGGTGTCTCCT 1690
Db 20 CTGGACCCCTGGTGTCTCCT 1
RESULT 6
ABX12200/c
ID ABX12200 standard; DNA; 20 BP.
XX AC ABX12200;
XX DT 16-MAY-2003 (first entry)
XX DE Human cholesteryl ester transfer protein, antisense oligo #21.
XX Human; cholesteryl ester transfer protein; lipid metabolism;
XX cholesterol metabolism; atherosclerosis; cardiovascular disease;
XX antisense; probe; ss.
XX Homo sapiens.
XX Key Location/Qualifiers
XX modified_base 1..6
FT FT /mod_base= OTHER
FT FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
XX PN WO2003014306-A2.
XX PD 20-FEB-2003.
XX PF 05-AUG-2002; 2002WO-US24919.
XX PR 08-AUG-2001; 2001US-0925139.
XX PA (ISIS-) ISIS PHARM INC.
XX PI Crooke RM, Graham MJ, Nero PS, Wanciewicz E;
XX DR WPI; 2003-248014/25.
XX New antisense compound, useful for preparing a composition for treating
XX abnormal lipid or cholesterol metabolism, atherosclerosis or
XX cardiovascular disease
XX Claim 3; Page 96; 114pp; English.
XX The invention relates to new antisense compounds targeted to a nucleic
XX acid molecule encoding human cholesteryl ester transfer protein,
XX specifically hybridises with it and inhibits the expression of human
XX cholesteryl ester transfer protein. The compound is useful for preparing
XX a composition for treating abnormal lipid or cholesterol metabolism,
XX atherosclerosis or cardiovascular disease. The present sequence
XX represents a human cholesteryl ester transfer protein, antisense
XX oligonucleotide of the invention.
XX Sequence 20 BP; 6 A; 5 C; 7 G; 2 T; 0 other;
Query Match 14.4%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 8.9;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1671 CTGGACCCCTGGTGTCTCCT 1690
Db 20 CTGGACCCCTGGTGTCTCCT 1

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CC primers related to the human CETP DNA, used during the course of the
CC invention.

XX Sequence 21 BP; 5 A; 6 C; 6 G; 4 T; 0 other;
SQ Query Match 15.1%; Score 21; DB 1; Length 21;
Best Local Similarity 100.0%; Pred.No. 6.1;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1665 TCACAGCTGGAACCCCTGGTGT 1685
DB 21 TCACAGCTGGAACCCCTGGTGT 1

RESULT 2
ID ABT13031/c
XX ABT13031 standard; DNA; 20 BP.
XX AC ABT13031;
XX DT 30-JAN-2003 (first entry)
XX DE Human cholesterol ester transfer protein PCR primer (SNP specific) #12.
XX KW Human; PCR; primer; ss; gene therapy; single nucleotide polymorphism;
KW cytochrome C oxidase subunit V1b; COX6B; high serum cholesterol; GPI-1;
KW N-acetylglucosaminyl transferase component; cardiovascular disease; HDL;
KW glycosylphosphatidylinositol-1; SNP; low serum high density lipoprotein.
XX OS Homo sapiens.
XX PN WO200272604-A2.
XX PD 19-SEP-2002.
XX PF 05-MAR-2002; 2002WO-US06728.
XX PR 09-MAR-2001; 2001US-0802640.
XX PA (SEQU-) SEQUENOM INC.
XX PI Braun A, Bansal A, Kleyn PW;
XX WPI; 2002-750478/81.
XX DR Detecting the presence or absence of an allelic variant of a
PT polymorphic region of COX6B and/or GPI-1 gene, useful for detecting a
PT predisposition to high serum cholesterol, low serum HDL and
PT cardiovascular disease.
XX PS Disclosure, Page 30; 199pp; English.

XX The invention comprises methods of detecting the presence or absence of
CC at least one allelic variant of a polymorphic region of a gene associated
CC with cardiovascular disease. The invention specifically relates to
CC detecting the region of a cytochrome C oxidase subunit V1b (COX6B) gene
CC that is associated with high serum cholesterol, or the region of the
CC N-acetylglucosaminyl transferase component glycosylphosphatidylinositol-1
CC (GPI-1) gene that is associated with low serum high density lipoprotein
CC (HDL). The methods of the invention are useful for detecting a
CC predisposition to high serum cholesterol, low serum HDL and
CC cardiovascular disease. The methods are also useful for elucidating
CC pathological pathways, developing diagnostic assays and new drug
CC therapies for such disorders. The present DNA sequence represents a PCR
CC primer used to amplify a human gene that is associated with high serum
CC cholesterol, low serum HDL and/or cardiovascular disease.

XX Sequence 20 BP; 3 A; 6 C; 4 G; 7 T; 0 other;
SQ Query Match 14.4%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred.No. 8.9;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1639 CTTGTAGCAGAGCGCAAGCA 1658
DB 20 CTTGTAGCAGAGCGCAAGCA 1

RESULT 3
ID ABX12175/c
XX ABX12175 standard; DNA; 20 BP.
XX AC ABX12175;
XX DT 16-MAY-2003 (first entry)
XX DE Human cholesteryl ester transfer protein, reverse PCR primer.
XX KW Human; cholesteryl ester transfer protein; lipid metabolism;
KW cholesterol metabolism; atherosclerosis; cardiovascular disease;
KW antisense; PCR; primer; ss.
XX OS Homo sapiens.
XX PN WO2003014306-A2.
XX PD 20-FEB-2003.
XX PF 05-AUG-2002; 2002WO-US24919.
XX PR 08-AUG-2001; 2001US-0925139.
XX PA (ISIS-) ISIS PHARM INC.
XX PI Crooke RM, Graham MJ, Nero PS, Wancewicz E;
XX WPI; 2003-248014/25.
XX DR New antisense compound, useful for preparing a composition for treating
PT abnormal lipid or cholesterol metabolism, atherosclerosis or
PT cardiovascular disease.
XX PS Example 13; Page 93; 114pp; English.

XX The invention relates to new antisense compounds targeted to a nucleic
CC acid molecule encoding human cholesteryl ester transfer protein,
CC specifically hybridizes with it and inhibits the expression of human
CC cholesteryl ester transfer protein. The compound is useful for preparing
CC a composition for treating abnormal lipid or cholesterol metabolism,
CC atherosclerosis or cardiovascular disease. The present sequence
CC represents a human cholesteryl ester transfer protein, PCR primer.

XX Sequence 20 BP; 6 A; 10 C; 1 G; 3 T; 0 other;
SQ Query Match 14.4%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred.No. 8.9;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1695 CGTGGTGGAGTTGGGTAG 1714
DB 20 CGTGGTGGAGTTGGGTAG 1

RESULT 4
ID ABX12198/c
XX ABX12198 standard; DNA; 20 BP.
XX AC ABX12198;
XX DT 16-MAY-2003 (first entry)
XX DE Human cholesteryl ester transfer protein, antisense oligo #19.
XX KW Human; cholesteryl ester transfer protein; lipid metabolism;
KW cholesterol metabolism; atherosclerosis; cardiovascular disease;
KW antisense; probe; ss.


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691 10.4 7.5 13 1 ABF74436 Oligonucleotide SE
692 10.4 7.5 13 1 ABF74437 Oligonucleotide SE
693 10.4 7.5 13 1 ABF79386 Oligonucleotide SE
694 10.4 7.5 13 1 ABF79387 Oligonucleotide SE
695 10.4 7.5 13 1 ABF82122 Oligonucleotide SE
696 10.4 7.5 13 1 ABF82123 Oligonucleotide SE
697 10.4 7.5 13 1 ABF87482 Oligonucleotide SE
698 10.4 7.5 13 1 ABF87483 Oligonucleotide SE
699 10.4 7.5 13 1 ABF90782 Oligonucleotide SE
700 10.4 7.5 13 1 ABF90783 Oligonucleotide SE
701 10.4 7.5 13 1 ABF92684 Oligonucleotide SE
702 10.4 7.5 13 1 ABF92685 Oligonucleotide SE
703 10.4 7.5 13 1 ABF95706 Oligonucleotide SE
704 10.4 7.5 13 1 ABF95707 Oligonucleotide SE
705 10.4 7.5 13 1 ABF95708 Oligonucleotide SE
706 10.4 7.5 13 1 ABF95709 Oligonucleotide SE
707 10.4 7.5 13 1 ABH00386 Oligonucleotide SE
708 10.4 7.5 13 1 ABH00387 Oligonucleotide SE
709 10.4 7.5 13 1 ABH00390 Oligonucleotide SE
710 10.4 7.5 13 1 ABH00391 Oligonucleotide SE
711 10.4 7.5 13 1 ABH00760 Oligonucleotide SE
712 10.4 7.5 13 1 ABH00761 Oligonucleotide SE
713 10.4 7.5 13 1 ABH12820 Oligonucleotide SE
714 10.4 7.5 13 1 ABH12821 Oligonucleotide SE
715 10.4 7.5 13 1 ABH13554 Oligonucleotide SE
716 10.4 7.5 13 1 ABH13555 Oligonucleotide SE
717 10.4 7.5 13 1 ABH13558 Oligonucleotide SE
718 10.4 7.5 13 1 ABH13559 Oligonucleotide SE
719 10.4 7.5 13 1 ABH15230 Oligonucleotide SE
720 10.4 7.5 13 1 ABH15231 Oligonucleotide SE
721 10.4 7.5 13 1 ABH26444 Oligonucleotide SE
722 10.4 7.5 13 1 ABH26445 Oligonucleotide SE
723 10.4 7.5 13 1 ABH35974 Oligonucleotide SE
724 10.4 7.5 13 1 ABH35975 Oligonucleotide SE
725 10.4 7.5 13 1 ABH36661 Oligonucleotide SE
726 10.4 7.5 13 1 ABH36662 Oligonucleotide SE
727 10.4 7.5 13 1 ABH36974 Oligonucleotide SE
728 10.4 7.5 13 1 ABH36975 Oligonucleotide SE
729 10.4 7.5 13 1 ABH37502 Oligonucleotide SE
730 10.4 7.5 13 1 ABH37503 Oligonucleotide SE
731 10.4 7.5 13 1 ABH42002 Oligonucleotide SE
732 10.4 7.5 13 1 ABH42003 Oligonucleotide SE
733 10.4 7.5 13 1 ABH47622 Oligonucleotide SE
734 10.4 7.5 13 1 ABH47623 Oligonucleotide SE
735 10.4 7.5 13 1 ABH50618 Oligonucleotide SE
736 10.4 7.5 13 1 ABH50619 Oligonucleotide SE
737 10.4 7.5 13 1 ABH61554 Oligonucleotide SE
738 10.4 7.5 13 1 ABH61555 Oligonucleotide SE
739 10.4 7.5 13 1 ABH63202 Oligonucleotide SE
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741 10.4 7.5 14 1 AAQ78441 TGF-beta gene phos
742 10.4 7.5 14 1 AAQ99069 Human EGF-R target
743 10.4 7.5 14 1 AAA17659 Aryl hydrocarbon n
744 10.4 7.5 14 1 AAA26158 Oestrogen receptor
745 10.2 7.3 15 1 AAT49813 Human CERP HH ribo
746 10.2 7.2 20 1 AAQ80879 Europium (III) tex
747 10.2 7.2 20 1 AAQ80880 Europium (III) tex
748 10.2 7.2 20 1 AAQ94455 Dysprosium (III) t
749 10.2 7.2 20 1 AAQ07290 Oligonucleotide #4
750 10.2 7.2 20 1 AAQ07037 Texaphyrin oligonu
751 10.2 7.2 20 1 AAQ88439 Exemplary texaphyr
752 9.8 7.1 13 1 ABF43820 Oligonucleotide SE
753 9.6 6.9 16 1 AAQ23795 Oligonucleotide SE
754 9.6 6.9 20 1 ABZ31506 Candida albicans G
755 9.4 6.8 13 1 ABC32492 Oligonucleotide SE
756 9.4 6.8 13 1 ABC32493 Oligonucleotide SE
757 9.4 6.8 13 1 ABC32494 Oligonucleotide SE
758 9.4 6.8 13 1 ABF18154 Oligonucleotide SE
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760 9.4 6.8 20 1 ABX12199 Human cholesterol1
761 9.4 6.8 20 1 AAD41746 Human REQL2 antis
762 9.2 6.6 16 1 AAS56873 Validation ribozym
763 9.2 6.6 17 1 AAX75159 Mouse flt-1 VEGF r

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764 9.2 6.6 20 1 AAT08224 p142, PCR primer U
765 9.2 6.6 20 1 AAQ81567 Hepatitis B virus
766 9.2 6.6 20 1 ABT23628 Stabilising reagen
767 9.2 6.6 22 1 AAX37644 HBV detecting prim
768 9 6.5 12 1 ABH71789 Oligonucleotide pr
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775 9 6.5 13 1 ABF43730 Oligonucleotide SE
776 9 6.5 13 1 ABF43731 Oligonucleotide SE
777 9 6.5 17 1 ABV91050 Human PDSH11 scann
778 9 6.5 20 1 ABV73609 S. albus plasmid
779 9 6.5 20 1 AAAS8421 Oct-4 transcript R
780 8.8 6.3 12 1 ABH96992 Human G protein-co
781 8.8 6.3 12 1 ABH96992 Oligonucleotide pr
782 8.8 6.3 12 1 ABH96991 Oligonucleotide pr
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784 8.8 6.3 15 1 AAT49827 Human CERP HH ribo
785 8.8 6.3 15 1 AAL45302 Human KCNB1 gene a
786 8.8 6.3 15 1 AAF69487 Human IL4Ralpha ge
787 8.8 6.3 19 1 AAA82923 cdk4 ribozyme bind
788 8.8 6.3 19 1 AAH58085 Cell-cycle depende
789 8.6 6.2 13 1 ABC24272 Oligonucleotide SE
790 8.6 6.2 13 1 ABC24273 Oligonucleotide SE

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ALIGNMENTS

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RESULT 1
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ID AAI66686 standard; DNA; 21 BP.
XX AC AAI66686;
XX DT 07-JAN-2002 (first entry)
XX DE Human CERP DNA related PCR primer.
XX DE CERP; arteriosclerosis; cholesterol ester transfer protein; HDL;
XX DE high density lipoprotein; human; PCR primer; ss.
XX OS Homo sapiens.
XX PN WO200171032-A1.
XX PD 27-SEP-2001.
XX PF 23-MAR-2001; 2001WO-JP02327.
XX PR 24-MAR-2000; 2000JP-0084264.
XX PA (BMLB-) BML INC.
XX PI Nagano M, Ito M, Sagehashi Y, Hattori H, Egashira T, Yamashita S;
XX PI Matsuzawa Y;
XX WI; 2001-611516/70.

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Determining a risk factor for arteriosclerosis comprises detecting mutations in genes for cholesterol ester transfer protein.

Disclosure; Page 21; 58pp; Japanese.

The invention relates to detecting the risk factor for arteriosclerosis in a subject that involves detecting mutations in the gene for cholesterol ester transfer protein (CERP) related to the degree of risk of arteriosclerosis. The mutant proteins alter the level of HDL in the blood. The high frequency mutations can be detected for prevention and treatment of arteriosclerosis. Sequences AAI66685-91 represent PCR

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C 404	10.8	7.8	15	1	AAF51502	IGF-I oligonucleot
C 405	10.8	7.8	15	1	AAF51599	IGF-I oligonucleot
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C 407	10.8	7.8	15	1	AAF52888	IGF-I oligonucleot
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C 410	10.8	7.8	15	1	AAH49214	Anti-c-Ha-ras olig
C 411	10.8	7.8	15	1	BS97484	Human epoxide hydr
C 412	10.8	7.8	15	1	AAH46735	c-Ha-ras antisense
C 413	10.8	7.8	15	1	ABL01599	c-Ha-ras targeted
C 414	10.8	7.8	18	1	AAA92609	Antisense oligonuc
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C 542	10.4	7.5	13	1	ABC19753	Oligonucleotide SE
C 543	10.4	7.5	13	1	ABC24272	Oligonucleotide SE
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C 254	11.4	8.2	15	1	AA47175	IGFBP3 oligonucleo	C 327	11	7.9	13	1	ABF46427	Oligonucleotide SE
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256	11.4	8.2	15	1	AA51494	IGF-I oligonucleot	C 329	11	7.9	13	1	ABF84271	Oligonucleotide SE
257	11.4	8.2	15	1	AA51495	IGF-I oligonucleot	330	11	7.9	13	1	ABF86040	Oligonucleotide SE
C 258	11.4	8.2	15	1	AA53419	IGF-I oligonucleot	C 331	11	7.9	13	1	ABF86041	Oligonucleotide SE
C 259	11.4	8.2	15	1	AA53420	IGF-I oligonucleot	C 332	11	7.9	13	1	ABF98562	Oligonucleotide SE
C 260	11.4	8.2	15	1	AA53421	IGF-I oligonucleot	333	11	7.9	13	1	ABF98563	Oligonucleotide SE
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262	11.4	8.2	15	1	AA53659	IGF-I oligonucleot	335	11	7.9	13	1	ABH01585	Oligonucleotide SE
263	11.4	8.2	15	1	AA53670	IGF-I oligonucleot	C 336	11	7.9	13	1	ABH05406	Oligonucleotide SE
C 264	11.4	8.2	15	1	AA53671	IGF-I oligonucleot	C 337	11	7.9	13	1	ABH05407	Oligonucleotide SE
265	11.4	8.2	15	1	ABX00692	Hepatitis C virus	338	11	7.9	13	1	ABH08492	Oligonucleotide SE
C 266	11.4	8.2	15	1	ABX96301	EDG1 gene allele-s	C 339	11	7.9	13	1	ABH08493	Oligonucleotide SE
C 267	11.4	8.2	15	1	ABX81430	SCYA20 allele spec	340	11	7.9	13	1	ABH19250	Oligonucleotide SE
C 268	11.4	8.2	15	1	ABX52104	Human PER1 allele	C 341	11	7.9	13	1	ABH19251	Oligonucleotide SE
C 269	11.4	8.2	15	1	ABX12736	ASO probe #1, used	342	11	7.9	13	1	ABH21128	Oligonucleotide SE
C 270	11.4	8.2	15	1	AA145302	Human KCNB1 gene a	C 343	11	7.9	13	1	ABH21129	Oligonucleotide SE
C 271	11.4	8.2	15	1	ABL01115	Human AKR1B1 gene	344	11	7.9	13	1	ABH22016	Oligonucleotide SE
C 272	11.4	8.2	15	1	AA25425	Human GNRH2 gene p	C 345	11	7.9	13	1	ABH22017	Oligonucleotide SE
C 273	11.4	8.2	15	1	AA516721	Hepatitis B virus	346	11	7.9	13	1	ABH30528	Oligonucleotide SE
C 274	11.4	8.2	15	1	ABK29978	Human APOA4 allele	C 347	11	7.9	13	1	ABH30529	Oligonucleotide SE
C 275	11.4	8.2	15	1	AA253520	Human GNRH2 gene p	348	11	7.9	13	1	ABH31314	Oligonucleotide SE
C 276	11.4	8.2	16	1	AAQ29804	B allele probe SN2	C 349	11	7.9	13	1	ABH31315	Oligonucleotide SE
C 277	11.4	8.2	16	1	AAQ40622	Hypervariable regi	350	11	7.9	13	1	ABH35638	Oligonucleotide SE
C 278	11.2	8.1	16	1	AAQ29793	A allele probe VP5	C 351	11	7.9	13	1	ABH35639	Oligonucleotide SE
C 279	11.2	8.1	16	1	AAQ29795	A allele probe VP5	C 352	11	7.9	14	1	AAF29395	Oligonucleotide pr
C 280	11.2	8.1	16	1	AAQ29859	Cytomegalovirus ta	353	11	7.9	15	1	AAV31919	Peptide nucleic ac
C 281	11.2	8.1	16	1	AA747419	Mycobacterium BCG	354	11	7.9	15	1	AAAX31800	Transcript tag seq
C 282	11.2	8.1	16	1	AA556973	Validation ribozym	355	11	7.9	15	1	AAAX31164	Tag sequence of a
C 283	11.2	8.1	16	1	AB234019	HIV-1 reverse tran	356	11	7.9	15	1	AAE67293	Human PKBP8 allele
C 284	11.2	8.1	16	1	AA168609	ICAM-1 triple heli	357	11	7.9	15	1	AAF50721	IGF-I oligonucleot
C 285	11.2	8.1	17	1	AB265014	Human HER2 DNzyme	358	11	7.9	15	1	AAF50722	IGF-I oligonucleot
C 286	11.2	8.1	17	1	AB265014	Antisense oligonuc	359	11	7.9	15	1	AAF50723	IGF-I oligonucleot
C 287	11	7.9	11	1	ABV62361	Human skin EST 147	360	11	7.9	15	1	AAF50724	IGF-I oligonucleot
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289	11	7.9	12	1	ABH74564	Oligonucleotide pr	C 362	11	7.9	15	1	AAK39485	IGF-I oligonucleot
290	11	7.9	12	1	ABH98049	Oligonucleotide pr	C 363	11	7.9	15	1	AAK92567	COBP2 detecting AS
291	11	7.9	12	1	AB101113	Oligonucleotide pr	364	11	7.9	15	1	ABK92569	ASO primer #4 to d
292	11	7.9	12	1	AB108693	Oligonucleotide pr	C 365	11	7.9	15	1	ABK92569	Colony stimulating
C 293	11	7.9	12	1	AB133606	Oligonucleotide pr	366	11	7.9	15	1	ABK32117	Human colon cancer
294	11	7.9	12	1	AB133606	Oligonucleotide pr	C 367	11	7.9	15	1	ABK32117	Human colorectal a
295	11	7.9	12	1	AB140118	Oligonucleotide pr	368	10.8	7.8	14	1	AAQ74120	Platelet derived a
C 296	11	7.9	12	1	AB153626	Oligonucleotide pr	369	10.8	7.8	14	1	AAAT98896	Probe 41w18 for HI
C 297	11	7.9	12	1	AB158915	Oligonucleotide pr	370	10.8	7.8	14	1	AAAT98896	Multiple antisense
C 298	11	7.9	12	1	AB158914	Oligonucleotide pr	371	10.8	7.8	14	1	AAAT98896	Triple helix formi
C 299	11	7.9	12	1	AB158914	Oligonucleotide pr	372	10.8	7.8	14	1	AAAT98896	Human multiple tar
C 300	11	7.9	12	1	AB158914	Oligonucleotide pr	373	10.8	7.8	14	1	AAAT98896	Human multiple tar
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C 307	11	7.9	12	1	AB158914	Oligonucleotide pr	380	10.8	7.8	14	1	AAAT98896	Human multiple tar
C 308	11	7.9	12	1	AB158914	Oligonucleotide pr	381	10.8	7.8	14	1	AAAT98896	Human multiple tar
C 309	11	7.9	12	1	AB158914	Oligonucleotide pr	382	10.8	7.8	14	1	AAAT98896	Human multiple tar
C 310	11	7.9	12	1	AB158914	Oligonucleotide pr	383	10.8	7.8	14	1	AAAT98896	Human multiple tar
C 311	11	7.9	12	1	AB158914	Oligonucleotide pr	384	10.8	7.8	14	1	AAAT98896	Human multiple tar
C 312	11	7.9	12	1	AB158914	Oligonucleotide pr	385	10.8	7.8	14	1	AAAT98896	Human multiple tar
C 313	11	7.9	12	1	AB158914	Oligonucleotide pr	386	10.8	7.8	14	1	AAAT98896	Human multiple tar
C 314	11	7.9	12	1	AB158914	Oligonucleotide pr	387	10.8	7.8	14	1	AAAT98896	Human multiple tar
C 315	11	7.9	12	1	AB158914	Oligonucleotide pr	388	10.8	7.8	14	1	AAAT98896	Human multiple tar
C 316	11	7.9	12	1	AB158914	Oligonucleotide pr	389	10.8	7.8	14	1	AAAT98896	Human multiple tar
C 317	11	7.9	12	1	AB158914	Oligonucleotide pr	390	10.8	7.8	14	1	AAAT98896	Human multiple tar
C 318	11	7.9	12	1	AB158914	Oligonucleotide pr	391	10.8	7.8	14	1	AAAT98896	Human multiple tar
C 319	11	7.9	12	1	AB158914	Oligonucleotide pr	392	10.8	7.8	14	1	AAAT98896	Human multiple tar
C 320	11	7.9	12	1	AB158914	Oligonucleotide pr	393	10.8	7.8	14	1	AAAT98896	Human multiple tar
C 321	11	7.9	12	1	AB158914	Oligonucleotide pr	394	10.8	7.8	14	1	AAAT98896	Human multiple tar
C 322	11	7.9	12	1	AB158914	Oligonucleotide pr	395	10.8	7.8	14	1	AAAT98896	Human multiple tar
C 323	11	7.9	12	1	AB158914	Oligonucleotide pr	396	10.8	7.8	14	1	AAAT98896	Human multiple tar
C 324	11	7.9	12	1	AB158914	Oligonucleotide pr	397	10.8	7.8	14	1	AAAT98896	Human multiple tar
C 325	11	7.9	12	1	AB158914	Oligonucleotide pr	398	10.8	7.8	14	1	AAAT98896	Human multiple tar

C 107	12.2	8.8	17	1	AAFP01989	Hammerhead ribozyme	180	11.8	8.5	16	1	ABX14989	Human delta opioid
C 108	12.2	8.8	17	1	AAA55987	Murine G713 amplif	181	11.6	8.3	13	1	ABH66152	Oligonucleotide SE
C 109	12.2	8.8	17	1	AAA24962	Oestrogen receptor	C 182	11.6	8.3	13	1	ABH66153	Oligonucleotide SE
C 110	12.2	8.8	17	1	ABK00576	Human NODG Hammerh	183	11.6	8.3	15	1	AAZ44834	H. annuus Sld1 hom
C 111	12.2	8.8	17	1	ABV79506	Human HTPL scannin	C 184	11.6	8.3	15	1	ABN81456	Human HTAIP allele
C 112	12.2	8.8	17	1	ABV90893	Human POSHL1 scann	185	11.6	8.3	15	1	ABL36320	Human lysosomal ac
C 113	12.2	8.8	17	1	ABV90895	Human POSHL1 scann	C 186	11.4	8.2	13	1	AAA06017	CFTR gene analysis
C 114	12.2	8.8	17	1	ABV90899	Human POSHL1 scann	C 187	11.4	8.2	13	1	ABC08446	Oligonucleotide SE
C 115	12.2	8.8	17	1	ABV91049	Human POSHL1 scann	188	11.4	8.2	13	1	ABC08447	Oligonucleotide SE
C 116	12.2	8.8	17	1	ABV91050	Human POSHL1 scann	189	11.4	8.2	13	1	ABC16692	Oligonucleotide SE
C 117	12.2	8.8	17	1	ABK97683	Cytochrome P450 3A	C 190	11.4	8.2	13	1	ABC16693	Oligonucleotide SE
C 118	12.2	8.8	17	1	ABN00535	Human GDMPLP-1 17-m	191	11.4	8.2	13	1	ABC32224	Oligonucleotide SE
C 119	12.2	8.8	17	1	ABN00535	Human GDMPLP-1 17-m	C 192	11.4	8.2	13	1	ABC32225	Oligonucleotide SE
C 120	12.2	8.8	17	1	ABN02472	Human GDMPLP-1 17-m	193	11.4	8.2	13	1	ABC25064	Oligonucleotide SE
C 121	12.2	8.8	17	1	ABN07839	Human GDMPLP-1 17-m	C 194	11.4	8.2	13	1	ABC25065	Oligonucleotide SE
C 122	12.2	8.8	17	1	ABN09666	Human GDMPLP-1 17-m	C 195	11.4	8.2	13	1	ABC25858	Oligonucleotide SE
C 123	12.2	8.8	17	1	ABT34389	Tumour suppression	196	11.4	8.2	13	1	ABC35859	Oligonucleotide SE
C 124	12.2	8.8	17	1	ABT40165	Tumour suppression	C 197	11.4	8.2	13	1	ABC26848	Oligonucleotide SE
C 125	12.2	8.8	17	1	ACA07738	NFKB sub-unit modu	198	11.4	8.2	13	1	ABC26849	Oligonucleotide SE
C 126	12.2	8.8	17	1	ACA07738	NFKB sub-unit modu	C 199	11.4	8.2	13	1	ABC38204	Oligonucleotide SE
C 127	12.2	8.8	17	1	ACA09102	NFKB sub-unit modu	200	11.4	8.2	13	1	ABC38205	Oligonucleotide SE
C 128	12.2	8.8	17	1	ABZ65014	Human HER2 DNazyme	C 201	11.4	8.2	13	1	ABC47948	Oligonucleotide SE
C 129	12.2	8.8	17	1	AAA92642	Antisense oligonuc	202	11.4	8.2	13	1	ABC47949	Oligonucleotide SE
C 130	12.2	8.8	21	1	AAI66686	Human CERP DNA rel	C 203	11.4	8.2	13	1	ABC49590	Oligonucleotide SE
C 131	12	8.6	12	1	ABH80452	Oligonucleotide pr	204	11.4	8.2	13	1	ABC49591	Oligonucleotide SE
C 132	12	8.6	12	1	ABH93471	Oligonucleotide pr	C 205	11.4	8.2	13	1	ABC62590	Oligonucleotide SE
C 133	12	8.6	13	1	ABH12177	Oligonucleotide SE	206	11.4	8.2	13	1	ABC62591	Oligonucleotide SE
C 134	12	8.6	13	1	ABC05018	Oligonucleotide SE	C 207	11.4	8.2	13	1	ABC62591	Oligonucleotide SE
C 135	12	8.6	13	1	ABC05019	Oligonucleotide SE	208	11.4	8.2	13	1	ABC62760	Oligonucleotide SE
C 136	12	8.6	13	1	ABC63272	Oligonucleotide SE	C 209	11.4	8.2	13	1	ABC62761	Oligonucleotide SE
C 137	12	8.6	13	1	ABC63273	Oligonucleotide SE	210	11.4	8.2	13	1	ABC65198	Oligonucleotide SE
C 138	12	8.6	13	1	ABC84320	Oligonucleotide SE	C 211	11.4	8.2	13	1	ABC65199	Oligonucleotide SE
C 139	12	8.6	13	1	ABC84321	Oligonucleotide SE	212	11.4	8.2	13	1	ABC70350	Oligonucleotide SE
C 140	12	8.6	13	1	ABF24344	Oligonucleotide SE	C 213	11.4	8.2	13	1	ABC84686	Oligonucleotide SE
C 141	12	8.6	13	1	ABF24345	Oligonucleotide SE	214	11.4	8.2	13	1	ABC84687	Oligonucleotide SE
C 142	12	8.6	13	1	ABF95704	Oligonucleotide SE	C 215	11.4	8.2	13	1	ABC84786	Oligonucleotide SE
C 143	12	8.6	13	1	ABF95705	Oligonucleotide SE	216	11.4	8.2	13	1	ABC84787	Oligonucleotide SE
C 144	12	8.6	13	1	ABH00388	Oligonucleotide SE	C 217	11.4	8.2	13	1	ABC93112	Oligonucleotide SE
C 145	12	8.6	13	1	ABH00389	Oligonucleotide SE	218	11.4	8.2	13	1	ABC93113	Oligonucleotide SE
C 146	12	8.6	13	1	ABH47624	Oligonucleotide SE	C 219	11.4	8.2	13	1	ABC93114	Oligonucleotide SE
C 147	12	8.6	13	1	ABH47625	Oligonucleotide SE	220	11.4	8.2	13	1	ABC93115	Oligonucleotide SE
C 148	12	8.6	15	1	ABH52231	Human PKG2 allele	C 221	11.4	8.2	13	1	ABC93116	Oligonucleotide SE
C 149	12	8.6	15	1	AAH26061	Human apolipoprote	222	11.4	8.2	13	1	ABC93117	Oligonucleotide SE
C 150	12	8.6	15	1	AAH26061	Human apolipoprote	C 223	11.4	8.2	13	1	ABF10342	Oligonucleotide SE
C 151	12	8.6	16	1	AAH44022	Colony stimulating	224	11.4	8.2	13	1	ABF10343	Oligonucleotide SE
C 152	12	8.6	16	1	AAH44022	Colony stimulating	C 225	11.4	8.2	13	1	ABF10344	Oligonucleotide SE
C 153	12	8.6	17	1	ABV90233	Hammerhead ribozym	226	11.4	8.2	13	1	ABF10345	Oligonucleotide SE
C 154	12	8.6	17	1	ABV90233	Hammerhead ribozym	C 227	11.4	8.2	13	1	ABF15452	Oligonucleotide SE
C 155	12	8.6	17	1	ABV90233	Human POSHL1 scann	228	11.4	8.2	13	1	ABF15453	Oligonucleotide SE
C 156	12	8.6	17	1	ABV90233	Human POSHL1 scann	C 229	11.4	8.2	13	1	ABF16652	Oligonucleotide SE
C 157	12	8.6	17	1	ABV90236	Human POSHL1 scann	230	11.4	8.2	13	1	ABF16653	Oligonucleotide SE
C 158	12	8.6	17	1	ABV90237	Human POSHL1 scann	C 231	11.4	8.2	13	1	ABF19170	Oligonucleotide SE
C 159	11.8	8.5	15	1	AAQ50548	Human chromosome 6	232	11.4	8.2	13	1	ABF19171	Oligonucleotide SE
C 160	11.8	8.5	15	1	AAQ50548	Human chromosome 6	C 233	11.4	8.2	13	1	ABF19306	Oligonucleotide SE
C 161	11.8	8.5	15	1	AAQ50548	Human chromosome 6	234	11.4	8.2	13	1	ABF19307	Oligonucleotide SE
C 162	11.8	8.5	15	1	AAQ50548	Human chromosome 6	C 235	11.4	8.2	13	1	ABF36186	Oligonucleotide SE
C 163	11.8	8.5	15	1	AAQ50548	Human chromosome 6	236	11.4	8.2	13	1	ABF36187	Oligonucleotide SE
C 164	11.8	8.5	15	1	AAQ50548	Human chromosome 6	C 237	11.4	8.2	13	1	ABF42168	Oligonucleotide SE
C 165	11.8	8.5	15	1	AAQ50548	Human chromosome 6	238	11.4	8.2	13	1	ABF42169	Oligonucleotide SE
C 166	11.8	8.5	15	1	AAQ50548	Human chromosome 6	C 239	11.4	8.2	13	1	ABF42170	Oligonucleotide SE
C 167	11.8	8.5	15	1	AAQ50548	Human chromosome 6	240	11.4	8.2	13	1	ABF42171	Oligonucleotide SE
C 168	11.8	8.5	15	1	AAQ50548	Human chromosome 6	C 241	11.4	8.2	13	1	ABF62158	Oligonucleotide SE
C 169	11.8	8.5	15	1	AAQ50548	Human chromosome 6	242	11.4	8.2	13	1	ABF62159	Oligonucleotide SE
C 170	11.8	8.5	15	1	AAQ50548	Human chromosome 6	C 243	11.4	8.2	13	1	ABH33146	Oligonucleotide SE
C 171	11.8	8.5	15	1	AAQ50548	Human chromosome 6	244	11.4	8.2	13	1	ABH33147	Oligonucleotide SE
C 172	11.8	8.5	15	1	AAQ50548	Human chromosome 6	C 245	11.4	8.2	13	1	ABH57116	Oligonucleotide SE
C 173	11.8	8.5	15	1	AAQ50548	Human chromosome 6	246	11.4	8.2	13	1	ABH57117	Oligonucleotide SE
C 174	11.8	8.5	16	1	AAQ50548	Human chromosome 6	C 247	11.4	8.2	13	1	ABH62596	Oligonucleotide SE
C 175	11.8	8.5	16	1	AAQ50548	Human chromosome 6	248	11.4	8.2	13	1	ABH62597	Oligonucleotide SE
C 176	11.8	8.5	16	1	AAQ50548	Human chromosome 6	C 249	11.4	8.2	14	1	AAQ74479	Probe 41w32 for HI
C 177	11.8	8.5	16	1	AAQ50548	Human chromosome 6	250	11.4	8.2	15	1	AAQ74479	Probe 41w32 for HI
C 178	11.8	8.5	16	1	AAQ50548	Human chromosome 6	C 251	11.4	8.2	15	1	AAQ74479	Probe 41w32 for HI
C 179	11.8	8.5	16	1	AAQ50548	Human chromosome 6	C 252	11.4	8.2	15	1	AAQ74479	Probe 41w32 for HI

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model
Run on: January 12, 2004, 13:48:01 ; Search time 1 Seconds
(without alignments)
2.878 Million cell updates/sec

Title: us-09-925-139-3
Perfect score: 139
Sequence: 1 ggaatggggctgttagcagaa.....ctatcctaaggcccaactgg 139

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 0.5

Searched: 739 seqs, 10352 residues

Total number of hits satisfying chosen parameters: 1478

Minimum DB seq length: 8
Maximum DB seq length: 50

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 790 summaries

Database : rng.seq*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	21	15.1	21	1	AAI66686 Human CETP DNA rel
2	20	14.4	20	1	ABT13031 Human cholesterol
3	20	14.4	20	1	ABX12178 Human cholesterol
4	20	14.4	20	1	ABX12198 Human cholesterol
5	20	14.4	20	1	ABX12199 Human cholesterol
6	20	14.4	20	1	ABX12200 Human cholesterol
7	20	14.4	20	1	ABX12217 Human cholesterol
8	20	14.4	20	1	ABX12218 Human cholesterol
9	20	14.4	20	1	ABX12219 Human cholesterol
10	20	14.4	20	1	ABX12220 Human cholesterol
11	18	12.9	18	1	AAI50642 Human CETP hairpin
12	17.2	12.4	22	1	AAI37644 HBV detecting prim
13	17	12.2	17	1	AAI22550 Human CETP RNA fra
14	16.8	12.1	21	1	AAI199829 Human G protein-co
15	16.2	11.7	22	1	AAV52705 Hepatocyte nuclear
16	15.2	10.9	20	1	AAD24930 Antisense primer
17	15	10.8	15	1	AAI49815 Human CETP HH ribo
18	15	10.8	15	1	AAI49817 Human CETP HH ribo
19	15	10.8	15	1	AAI49819 Human CETP HH ribo
20	15	10.8	15	1	AAI49821 Human CETP HH ribo
21	15	10.8	15	1	AAI49823 Human CETP HH ribo
22	15	10.8	15	1	AAI49825 Human CETP HH ribo
23	15	10.8	15	1	AAI49827 Human CETP HH ribo
24	15	10.8	15	1	AAI49829 Human CETP HH ribo
25	15	10.8	15	1	AAI49831 Human CETP HH ribo
26	15	10.8	15	1	AAI49833 Human CETP HH ribo
27	15	10.8	15	1	AAI49835 Human CETP HH ribo
28	15	10.8	15	1	AAI49837 Human CETP HH ribo
29	15	10.8	15	1	AAI49839 Human CETP HH ribo
30	15	10.8	15	1	AAI49841 Human CETP HH ribo
31	15	10.8	15	1	AAI49809 Human CETP HH ribo
32	15	10.8	15	1	AAI49811 Human CETP HH ribo
33	15	10.8	15	1	AAI49813 Human CETP HH ribo

C	34	14.8	10.6	20	1	ABS60987 Human genotyping P
C	35	14.4	10.4	18	1	ABL58444 Cyp-C probe genera
C	36	14.4	10.4	20	1	ABZ31506 Candida albicans G
C	37	14.4	10.4	20	1	ABV73609 S. albulus plasmid
C	38	14.4	10.4	20	1	ABT193783 Capture oligonucle
C	39	14.4	10.2	20	1	AAI08224 p142, PCR primer u
C	40	14.2	10.2	20	1	AAQ81567 Hepatitis B virus
C	41	14.2	10.2	20	1	AAQ80879 Hepatitis B virus
C	42	14.2	10.2	20	1	AAQ80880 Hepatitis B virus
C	43	14.2	10.2	20	1	AAQ80880 Hepatitis B virus
C	44	14.2	10.2	20	1	AAQ80880 Hepatitis B virus
C	45	14.2	10.2	20	1	AAQ80880 Hepatitis B virus
C	46	14.2	10.2	20	1	AAQ80880 Hepatitis B virus
C	47	14.2	10.2	20	1	AAQ80880 Hepatitis B virus
C	48	14.2	10.2	20	1	AAQ80880 Hepatitis B virus
C	49	14.2	10.2	20	1	AAQ80880 Hepatitis B virus
C	50	14.2	10.2	20	1	AAQ80880 Hepatitis B virus
C	51	14	10.1	20	1	AAQ80880 Hepatitis B virus
C	52	13.8	9.9	17	1	AAQ80880 Hepatitis B virus
C	53	13.8	9.9	17	1	AAQ80880 Hepatitis B virus
C	54	13.8	9.9	17	1	AAQ80880 Hepatitis B virus
C	55	13.4	9.6	18	1	AAQ80880 Hepatitis B virus
C	56	13.4	9.6	18	1	AAQ80880 Hepatitis B virus
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C	59	13.4	9.6	19	1	AAQ80880 Hepatitis B virus
C	60	13.4	9.6	19	1	AAQ80880 Hepatitis B virus
C	61	13.4	9.6	19	1	AAQ80880 Hepatitis B virus
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C	66	13.2	9.5	18	1	AAQ80880 Hepatitis B virus
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C	70	13.2	9.5	18	1	AAQ80880 Hepatitis B virus
C	71	13	9.4	13	1	AAQ80880 Hepatitis B virus
C	72	13	9.4	13	1	AAQ80880 Hepatitis B virus
C	73	13	9.4	13	1	AAQ80880 Hepatitis B virus
C	74	13	9.4	13	1	AAQ80880 Hepatitis B virus
C	75	13	9.4	13	1	AAQ80880 Hepatitis B virus
C	76	12.8	9.2	17	1	AAQ80880 Hepatitis B virus
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C	82	12.8	9.2	17	1	AAQ80880 Hepatitis B virus
C	83	12.8	9.2	17	1	AAQ80880 Hepatitis B virus
C	84	12.8	9.2	17	1	AAQ80880 Hepatitis B virus
C	85	12.8	9.2	17	1	AAQ80880 Hepatitis B virus
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C	88	12.8	9.2	17	1	AAQ80880 Hepatitis B virus
C	89	12.8	9.2	17	1	AAQ80880 Hepatitis B virus
C	90	12.8	9.2	17	1	AAQ80880 Hepatitis B virus
C	91	12.6	9.1	13	1	AAQ80880 Hepatitis B virus
C	92	12.6	9.1	13	1	AAQ80880 Hepatitis B virus
C	93	12.4	8.9	15	1	AAQ80880 Hepatitis B virus
C	94	12.4	8.9	15	1	AAQ80880 Hepatitis B virus
C	95	12.4	8.9	15	1	AAQ80880 Hepatitis B virus
C	96	12.4	8.9	15	1	AAQ80880 Hepatitis B virus
C	97	12.4	8.9	15	1	AAQ80880 Hepatitis B virus
C	98	12.4	8.9	15	1	AAQ80880 Hepatitis B virus
C	99	12.4	8.9	15	1	AAQ80880 Hepatitis B virus
C	100	12.4	8.9	15	1	AAQ80880 Hepatitis B virus
C	101	12.4	8.9	15	1	AAQ80880 Hepatitis B virus
C	102	12.4	8.9	15	1	AAQ80880 Hepatitis B virus
C	103	12.4	8.9	15	1	AAQ80880 Hepatitis B virus
C	104	12.2	8.8	17	1	AAQ80880 Hepatitis B virus
C	105	12.2	8.8	17	1	AAQ80880 Hepatitis B virus
C	106	12.2	8.8	17	1	AAQ80880 Hepatitis B virus